DMXNet Manager v1.x
User Manual

Visualize…centralized printer control

Realize…DMXNet Manager

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

i. Preface

DMXNet Manager

DMXNet Manager is developed by MCL Technologies to help network administrators manage their organization's Datamax printers.

Copyright Statement

© 2008 MCL Technologies

DMXNet Manager v1.x User Manual

DATAMAX is a registered trademark of Datamax Bar Code Products Corporation. Seagull and BarTender are trademarks or registered trademarks of Seagull Scientific, Inc. Microsoft, Windows, Windows XP, Windows 2000, and Windows 98 are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks are the property of their respective owners.

All specifications, terms and descriptions of products and services are subject to change without notice or recourse.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Table of Contents

1. Introduction 4
1.1. What is DMXNet Manager 5

2. Getting Started 6
2.1. Installation 7
2.2. Activation 11
2.3. General Setup 19
2.4. Configurations 23
2.5. Add Printer 25
2.6. Connect / Disconnect Printer 33
2.7. Edit Printer – Initial Setup 37
2.8. Duplicate Printer 48
2.9. Delete Printer 50
2.10. Profiles 51

3. Printer Management 53
3.1. Configuration Views 54
3.2. Edit Printer – Control and Management 65
3.3. Printer Control 72
3.4. Load File / Control 77
3.5. Scripts 92

Appendix A – Sample License Certificate 104

Appendix B – Datamax Printer Setup 106

Appendix C – Printer Status Messages 107

Appendix D – Supported Datamax Printers 108

Appendix E – System Requirements 109

Appendix F – Datamax Drives and MCL Aliases 110

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

1. Introduction

Overview

Document introduction

This document is a User Guide for DMXNet Manager v1.x. It is divided into three chapters to give a thorough understanding of DMXNet Manager and its supervisory and printer control capabilities:

- Chapter 1 – Introduction
- Chapter 2 – Getting Started
- Chapter 3 – Printer Management

Chapter 1 introduction

This chapter gives a general overview of DMXNet Manager's capabilities and introduces you to its purpose, benefits and philosophy.

Topics

This chapter covers the following topics:

	Topic	Page
1.1.	What is DMXNet Manager	5

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

1.1. What is DMXNet Manager

General introduction

This section gives an overview of DMXNet Manager, its purpose and its benefits.

Purpose

The purpose of DMXNet Manager is to help network administrators supervisor and control their organization's Datamax printers easily and proactively by providing:

- Remote status supervision
- Printer parameterization
- Firmware deployment
- Application deployment
- Media control

Benefits

DMXNet Manager:

- Reduces your network administrator's time and related costs to manage and control your network of Datamax printers.
- Reduces your printer downtime and therefore reduces your operations downtime and related loss of productivity costs.

Philosophy

DMXNet Manager was conceived to facilitate proactive management of Datamax printers by giving administrators and supervisors an at-a-glance view of the status of their entire printer network.

DMXNet Manager

DMXNet Manager is a supervision and control environment for Datamax Printers. It:

- Gives your network administrators the ability to configure… monitor… control your printers remotely… centrally… proactively.
- Initializes and updates your printer settings.
- Provides profiles so the identical printer setup can be applied to many printers.
- Executes printer controls such as form feed, pause printer.
- Gives color-coded status indicators of your printers'
  - Communication status
  - Printer status
  - Media status
- Gives warnings when a printer's supplies, such as a label roll or printer ribbon, needs to be replaced—before it runs out and affects your organization's operations.
- Gives warnings when maintenance, such as printer head replacement, is due on a printer so an administrator can schedule printer maintenance that does not impact your operations.
- Load files, firmware, fonts, graphics, labels, profiles, MCL printer applications, data files, and DPL control across your entire printer network.
- Provides scripting so identical procedures, such as downloading new firmware, can be performed automatically on many printers.

Usage modes

DMXNet Manager gives you two main modes for working with your printers:

- Supervision Mode – refers to when you are working in views that let you see and work with several printers at once.
- Control Mode – refers to when you are working in views that let you work with just one printer at a time.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2. Getting Started

Overview

Chapter 2 introduction

This chapter describes the installation and setup of DMXNet Manager.

Description

Setup in DMXNet Manager involves setup of:

- DMXNet Manager itself to run in your environment
- The printers to be monitored and controlled by DMXNet Manager
- DMXNet Manager's printer control options

The configuration process described in this chapter is typically performed just once when a printer is first added to DMXNet Manager and thereafter only periodically when a change in operations requires a change to printer setup or a manufacturer update recommends a change to a configuration.

Topics

This chapter covers the following topics:

	Topic	Page
2.1	Installation	7
2.2	Activation	11
2.3	General Setup ▪ 2.3.1 DPL Connection ▪ 2.3.2 MCL Connection ▪ 2.3.3 Local Settings	19
2.4	Configurations	23
2.5	Add Printer ▪ 2.5.1 Add Printers through Auto-Discovery ▪ 2.5.2. Add Printer Manually ▪ 2.5.3. Main Settings	25
2.6	Connect / Disconnect Printer	33
2.7	Edit Printer – Initial Setup ▪ 2.7.1 Hardware Settings ▪ 2.7.2 System Settings ▪ 2.7.3 Front Panel Settings ▪ 2.7.4 Printer Control Settings ▪ 2.7.5 Media Settings ▪ 2.7.6 Communication Settings ▪ 2.7.7 GPIO and Auxiliary Settings	37
2.8	Duplicate Printer	48
2.9	Delete Printer	50
2.10	Profiles	51

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.1. Installation

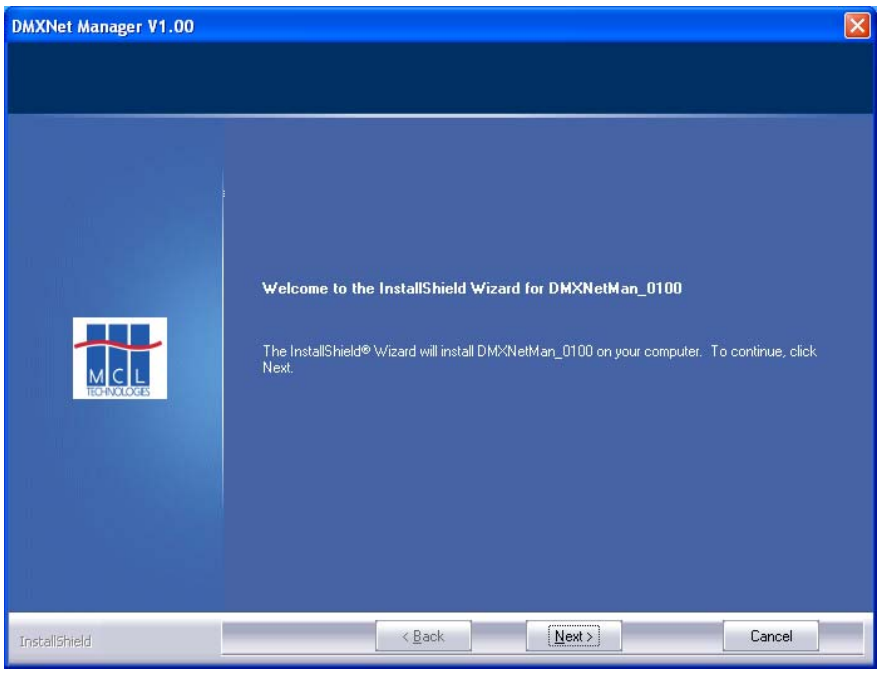
General introduction

This section describes how to install DMXNet Manager.

Installation

1 **Double-click** on the DMXNet Manager **installation executable** which you have downloaded. The default folder in which DMXNet Manager is installed is C:\DMXNetMan.

A welcome screen is displayed as shown below

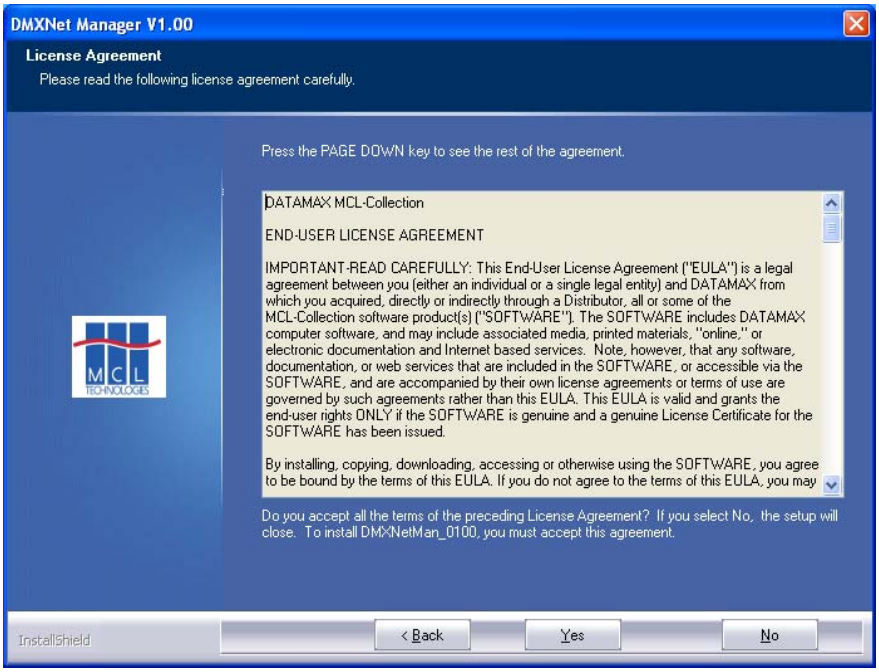

DMXNet Manager V1.00
Welcome to the InstallShield Wizard for DMXNetMan_0100
The InstallShield® Wizard will install DMXNetMan_0100 on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

2 Click **Next** to proceed with the installation

www.mcl-collection.com

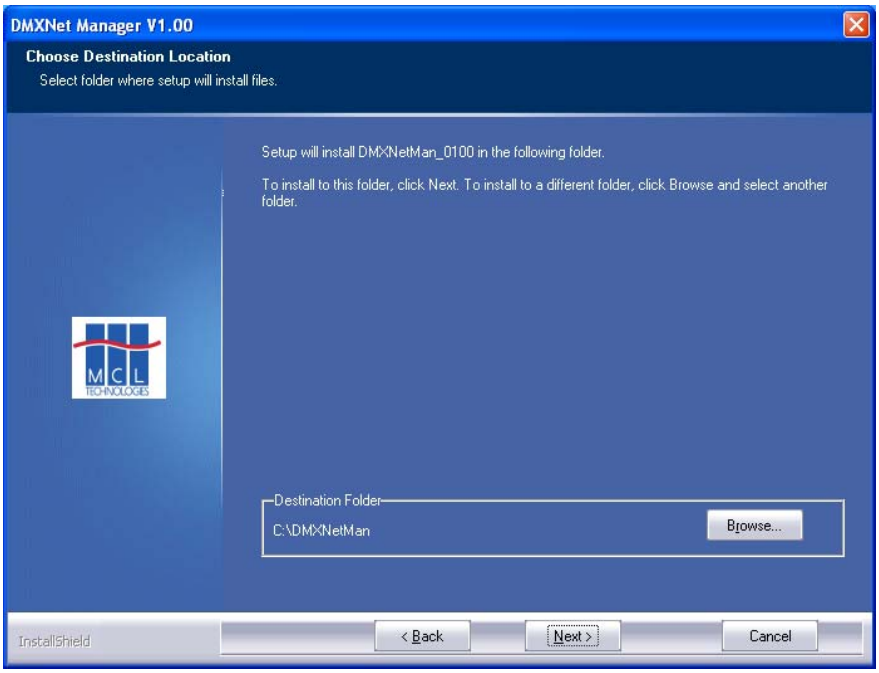
Copyright © 2010 • MCL Technologies • All Rigths Reserved

An end-user license agreement is displayed as shown here


DMXNet Manager V1.00
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
DATAMAX MCL-Collection
END-USER LICENSE AGREEMENT
IMPORTANT-READ CAREFULLY: This End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single legal entity) and DATAMAX from which you acquired, directly or indirectly through a Distributor, all or some of the MCL-Collection software product(s) ("SOFTWARE"). The SOFTWARE includes DATAMAX computer software, and may include associated media, printed materials, "online," or electronic documentation and Internet based services. Note, however, that any software, documentation, or web services that are included in the SOFTWARE, or accessible via the SOFTWARE, and are accompanied by their own license agreements or terms of use are governed by such agreements rather than this EULA. This EULA is valid and grants the end-user rights ONLY if the SOFTWARE is genuine and a genuine License Certificate for the SOFTWARE has been issued.
By installing, copying, downloading, accessing or otherwise using the SOFTWARE, you agree to be bound by the terms of this EULA. If you do not agree to the terms of this EULA, you may
Do you accept all the terms of the preceding License Agreement? If you select No, the setup will close. To install DMXNetMan_0100, you must accept this agreement.
InstallShield
< Back
Yes
No

To accept the license terms and proceed
3 Click **Yes**

As shown below, a screen is displayed prompting you to enter the location where you want to install DMXNet Manager.

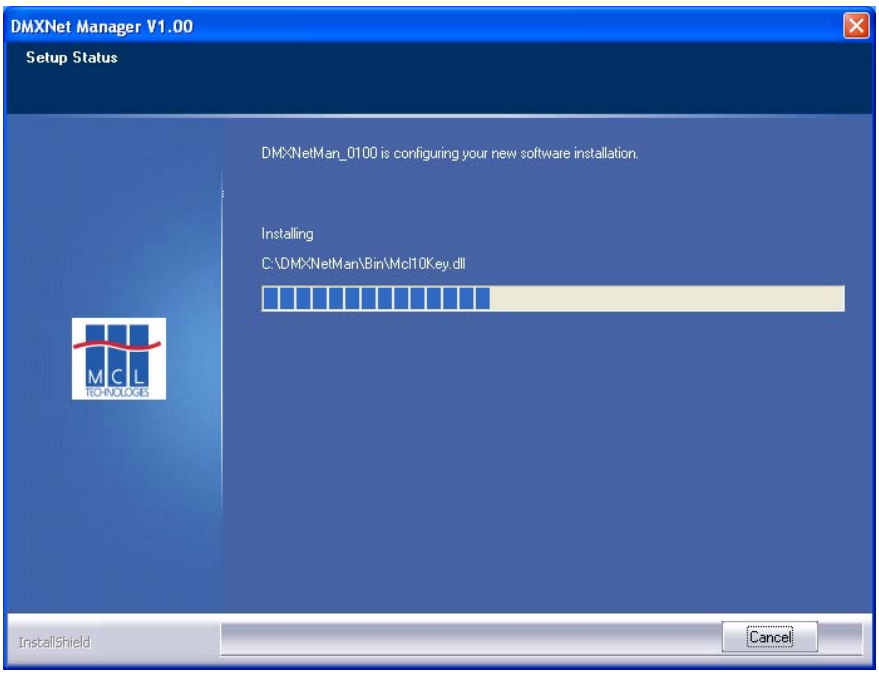

DMXNet Manager V1.00
Choose Destination Location
Select folder where setup will install files.
Setup will install DMXNetMan_0100 in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\DMXNetMan
Browse...
InstallShield
< Back
Next >
Cancel

4 Click **Next** to use the default folder for your installation, or
5 **Edit** the entry or **browse** for the folder where you want to install DMXNet Manager
6 Click **Next**

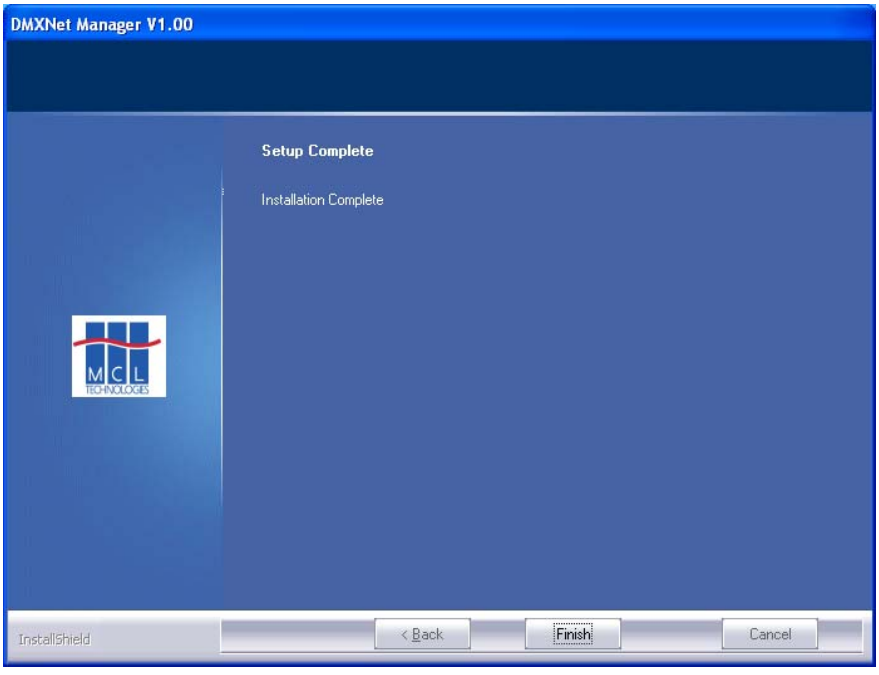
www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

As shown below, a screen is displayed to show you the progress of the installation



The following is displayed when installation is completed



7 Click **Finish**

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Starting DMXNet Manager

Once DMXNet Manager is installed, start it by:

1 **Double click** on the DMXNet Manager shortcut icon on the Windows desktop

The DMXNet Manager splash screen is displayed

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.2. Activation

General introduction

This section describes the activation process for DMXNet Manager.

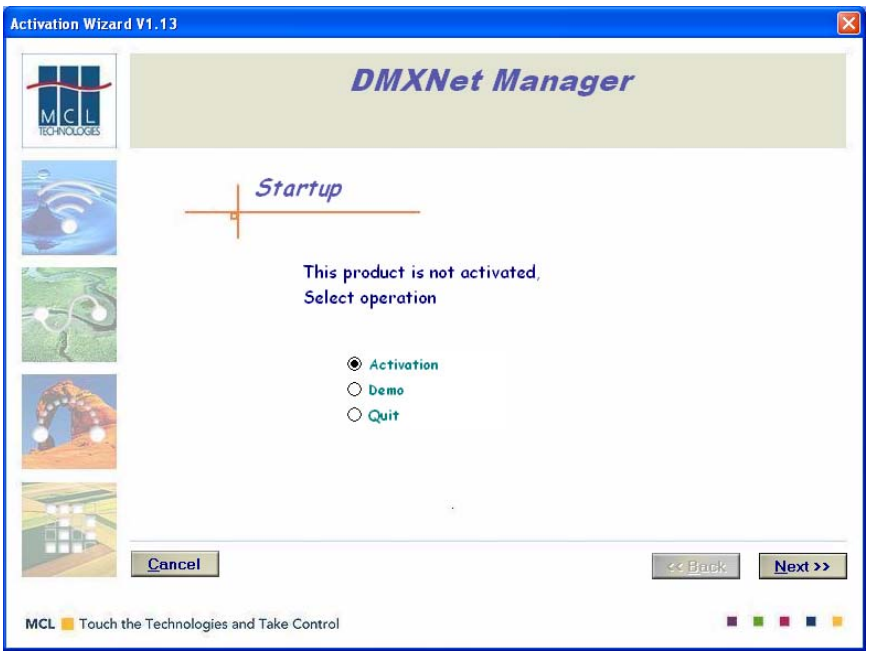
During the activation process you will be prompted to choose between a Software Activation and a Hardware Activation for your DMXNet Manager license. Be sure to understand the benefits of each method and the consequences of choosing one method over the other.

Be sure to make your choice carefully. The activation method you choose **cannot be changed** at a later stage.

Activation

The first time you run DMXNet Manager, you will be prompted to **Activate** the software. To do this, you will need to have the License Certificate ready which you have received, by email, when you ordered DMXNet Manager.

1 Get out your DMXNet Manager **License Certificate**. Please see Appendix A for a sample certificate.

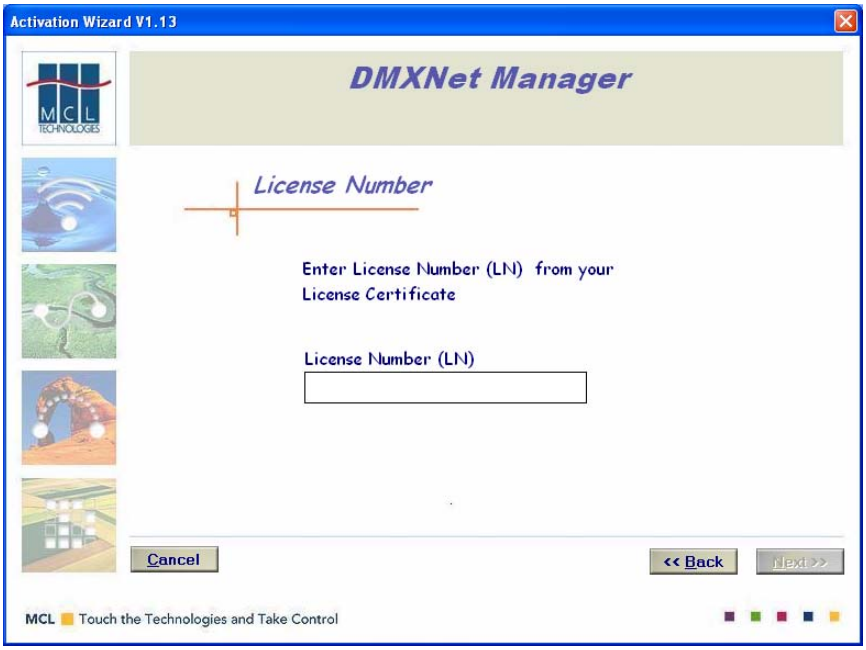


2 Click **Next** to begin the Activation Process.

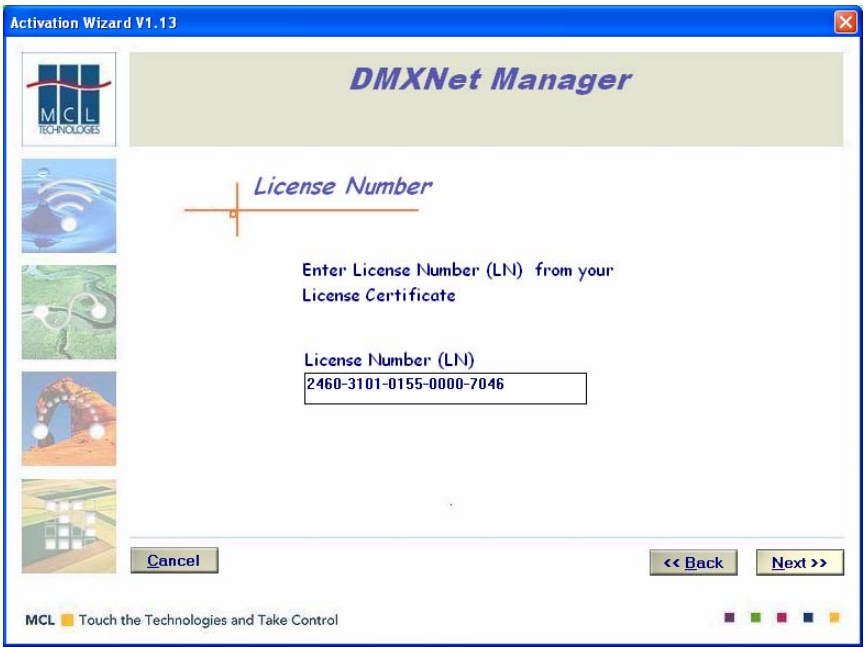
Note: DMXNet Manager offers 30-day full use in demo mode, no activation license required.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved



3 Enter the **License Number** found on your **License Certificate**



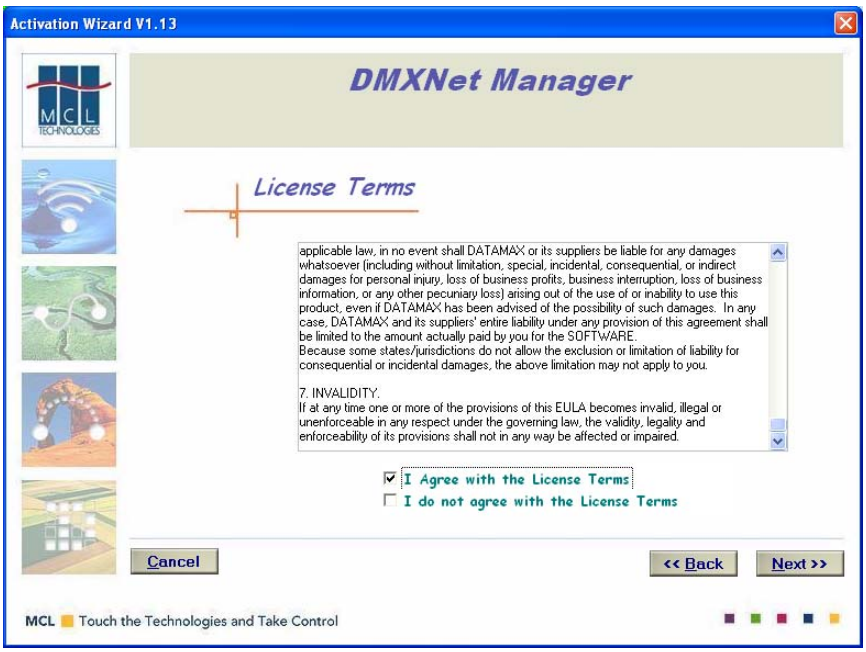
4 Click **Next**

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

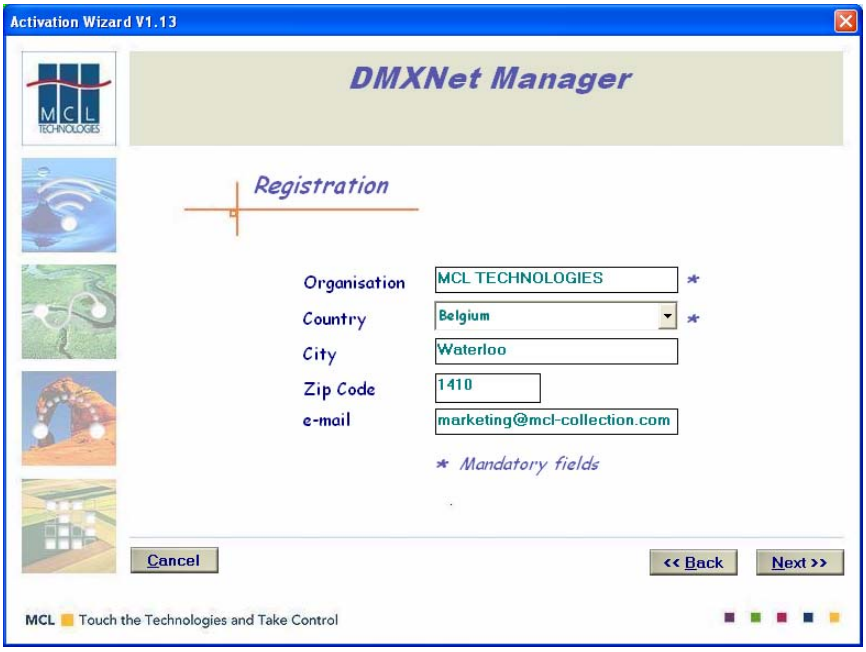
End-user license agreement

MCL's End-User License Agreement is displayed as shown below. Before proceeding, you must read and accept these license terms.


Activation Wizard V1.13
DMXNet Manager
License Terms
applicable law, in no event shall DATAMAX or its suppliers be liable for any damages whatsoever (including without limitation, special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss) arising out of the use of or inability to use this product, even if DATAMAX has been advised of the possibility of such damages. In any case, DATAMAX and its suppliers' entire liability under any provision of this agreement shall be limited to the amount actually paid by you for the SOFTWARE.
Because some states/jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damages, the above limitation may not apply to you.
7. INVALIDITY.
If at any time one or more of the provisions of this EULA becomes invalid, illegal or unenforceable in any respect under the governing law, the validity, legality and enforceability of its provisions shall not in any way be affected or impaired.
I Agree with the License Terms
I do not agree with the License Terms
Cancel
<< Back
Next >>
MCL Touch the Technologies and Take Control

5 **Read** and **scroll down** to the bottom of the terms
6 Check the **checkbox** to accept the license terms
7 Click **Next**

The DMXNet Manager software registration form is displayed



8 Enter the **details** of the company to whom the License should be registered
9 Click **Next**

Note: Only Organisation and Country are compulsory fields. However, the more details you provide, the easier it will be for MCL Technologies to provide technical assistance in the future, should assistance be necessary.

www.mcl-collection.com

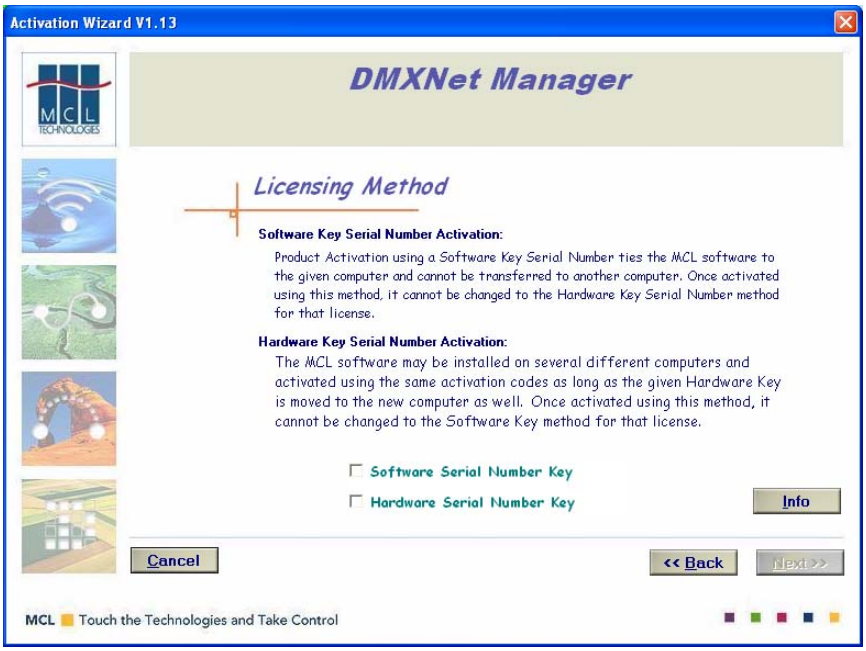
Copyright © 2010 • MCL Technologies • All Rigths Reserved

Software versus hardware activation

The next step is to choose between Software Activation and Hardware Activation.

This choice is **very important** as it **cannot be changed** at a later stage.

- **Software Activation**: Using this method of activation, DMXNet Manager computes a Serial Number from various components on your PC. DMXNet Manager then ties your license number to this computed Serial Number. Thus, your software becomes **PC Dependent**. You will **not** be able to transfer your licensing details over to a different PC if you want to install and run DMXNet Manager on a different PC.
- **Hardware Activation**: This method of activation requires the purchase of a Hardware Serial Number Key. Using this method of activation, DMXNet Manager ties your license number to the serial number of your Hardware Key. Thus your software becomes **PC Independent**. This means you **can** install and run DMXNet Manager on a different PC at anytime, providing you are able to plug your Hardware Serial Number Key into the other PC. The Hardware Key must be present for the software to run.


Activation Wizard V1.13
DMXNet Manager
Licensing Method
Software Key Serial Number Activation:
Product Activation using a Software Key Serial Number ties the MCL software to the given computer and cannot be transferred to another computer. Once activated using this method, it cannot be changed to the Hardware Key Serial Number method for that license.
Hardware Key Serial Number Activation:
The MCL software may be installed on several different computers and activated using the same activation codes as long as the given Hardware Key is moved to the new computer as well. Once activated using this method, it cannot be changed to the Software Key method for that license.
Software Serial Number Key
Hardware Serial Number Key
Info
Cancel
<< Back
Next >>
MCL Touch the Technologies and Take Control

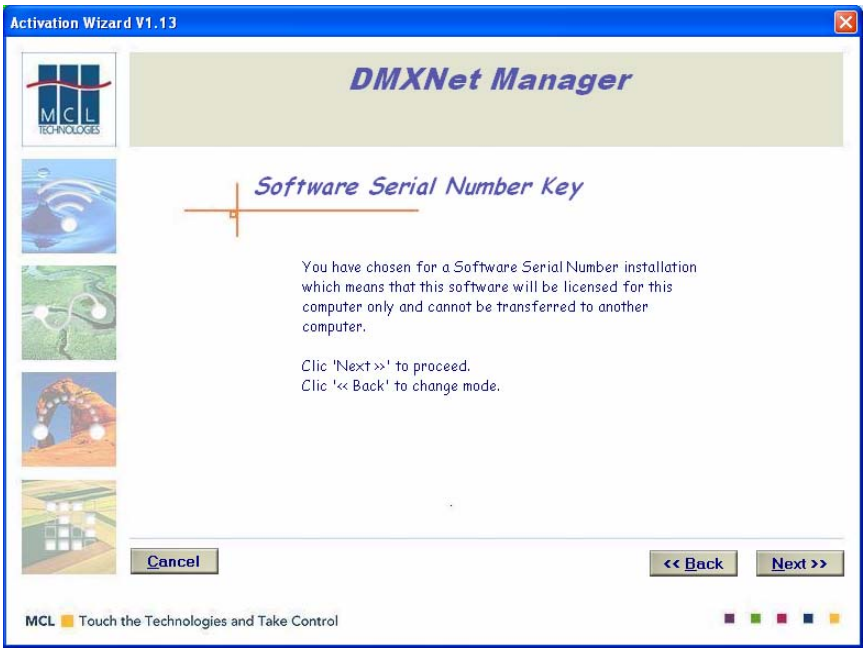
Once you have made your choice between Software and Hardware activation:

10 Check the appropriate **checkbox**
11 Click **Next**

You are prompted to confirm your selection as shown below

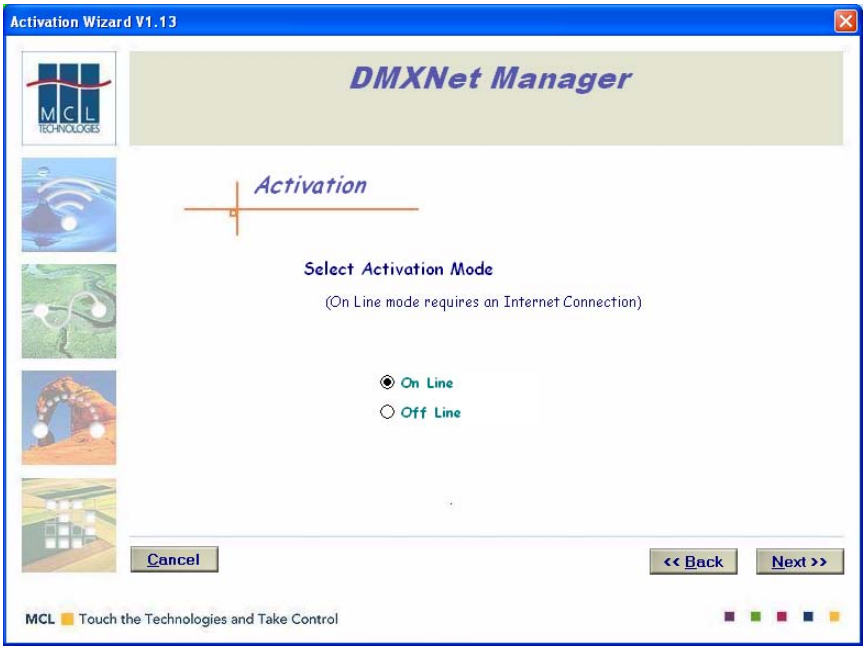
www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved


Activation Wizard V1.13
DMXNet Manager
Software Serial Number Key
You have chosen for a Software Serial Number installation which means that this software will be licensed for this computer only and cannot be transferred to another computer.
Clic 'Next >>' to proceed.
Clic '<< Back' to change mode.
Cancel
<< Back
Next >>
MCL Touch the Technologies and Take Control

12 Click **Next** to confirm and proceed

The Activation mode screen is displayed as shown here



Indicate if you want to use on-line or off-line activation

13 Click the appropriate **radio button**

14 Click **Next**

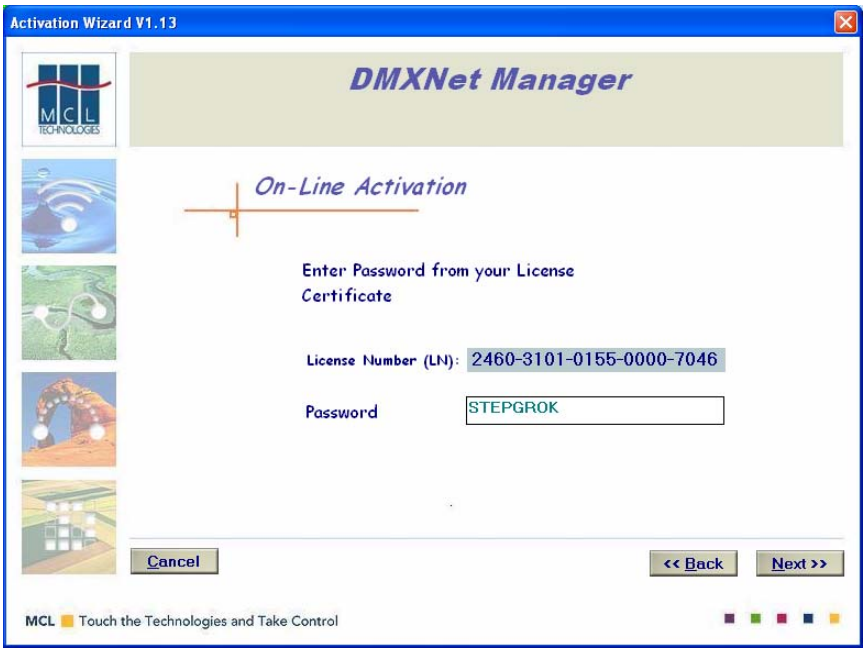
Your system needs internet access for on-line activation to be possible.

This example uses on-line activation. Consequently, the On-Line Activation screen is displayed as shown below.

The off-line activation mode will step you through the activation process in a similar fashion.

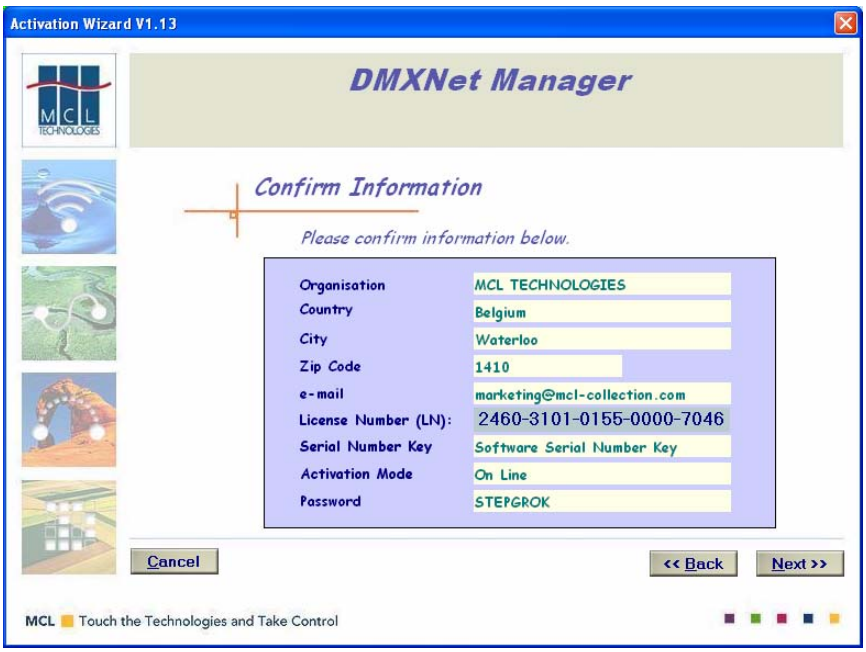
www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved



15 Enter the **Password** found on your **License Certificate**
16 Click **Next**

You are prompted to confirm that your registration information is accurate



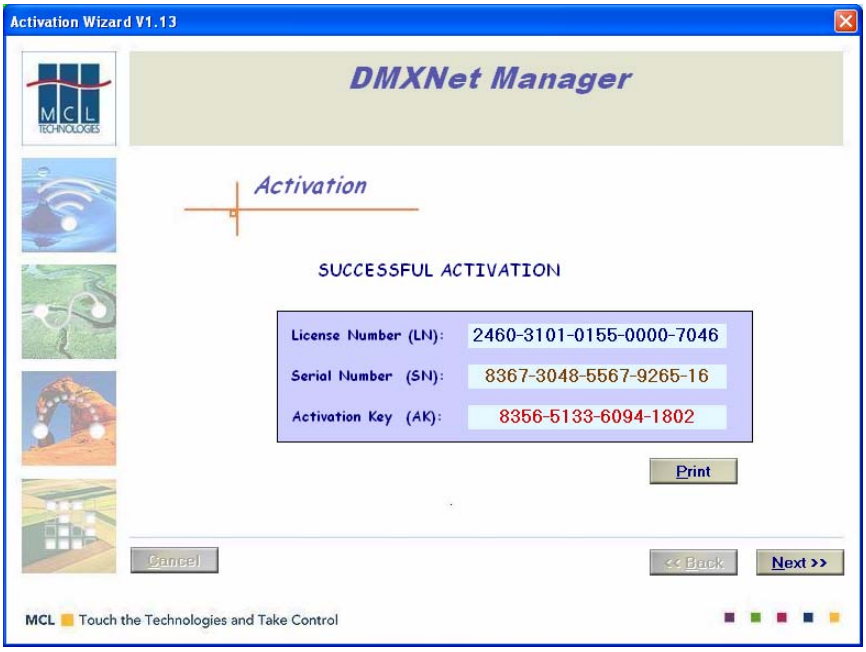
17 Click **Next** to confirm the details you entered on the previous screens.

DMXNet Manager now connects to MCL's Licensing Server and records your details on the server. The Licensing Server then returns an Activation Key. When the Activation Key is received, your software is ready to be used.

www.mcl-collection.com

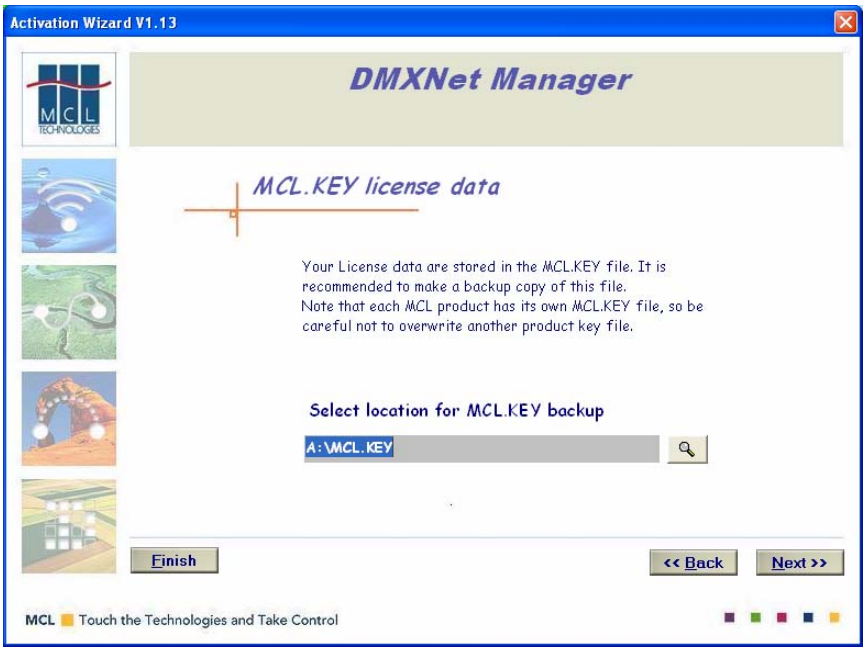
Copyright © 2010 • MCL Technologies • All Rigths Reserved

An Activation successful screen is displayed as shown below



18 **Print** this information and keep it in a safe place for later use in case of disaster recovery.
19 Click **Next** to validate your activation.

You are now prompted to save a backup of your License Key. It includes your license number, serial number and activation key.


Activation Wizard V1.13
DMXNet Manager
MCL.KEY license data
Your License data are stored in the MCL.KEY file. It is recommended to make a backup copy of this file.
Note that each MCL product has its own MCL.KEY file, so be careful not to overwrite another product key file.
Select location for MCL.KEY backup
A:\MCL.KEY
Finish
<< Back
Next >>
MCL Touch the Technologies and Take Control

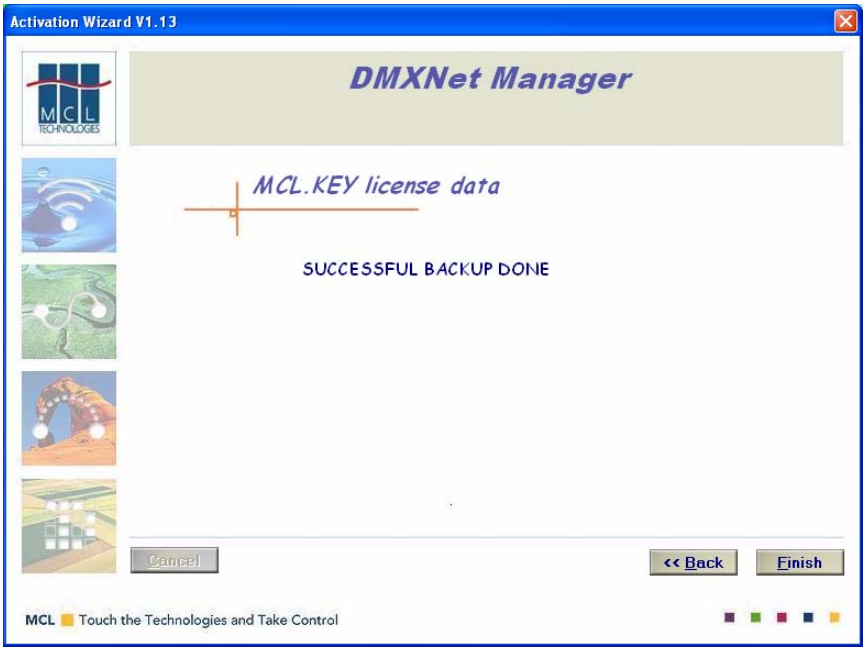
20 **Edit** the entry or **browse** to the **location** where you want your **License Key** backed up
21 Click **Next**

Note: It is very important for you to record and save a backup of your license key. This is the only way MCL Technologies can help you recover your DMXNet Manager license in the event of a disaster.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

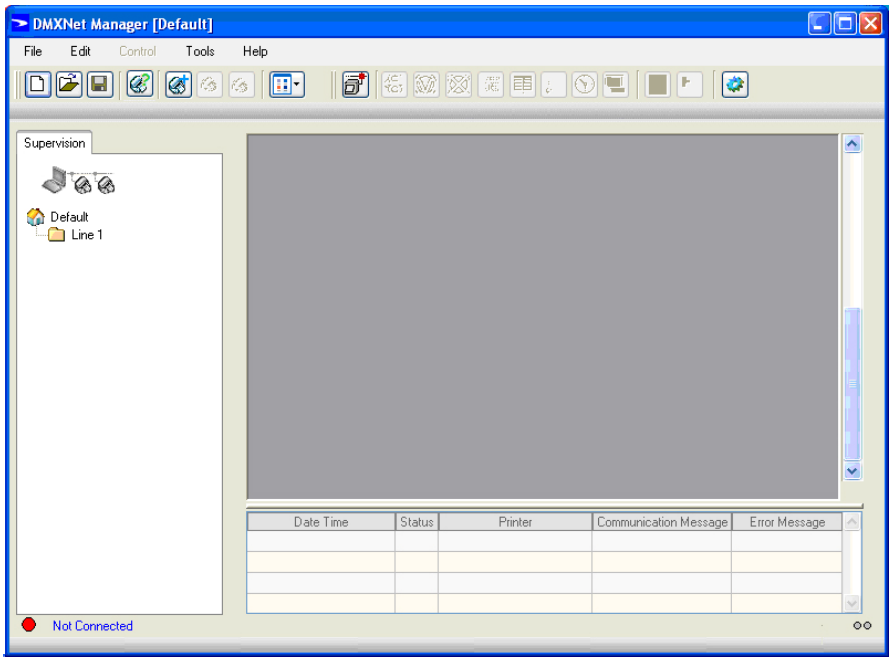
A successful backup screen is displayed as shown here.



22 Click **Finish**

DMXNet Manager launch

With its installation and activation completed successfully, DMXNet Manager is started as shown below. You are now ready to setup DMXNet Manager for use in your environment.



www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.3. General Setup

General introduction

This section describes the setup of DMXNet Manager to allow it to operate in your environment. This setup involve settings that:

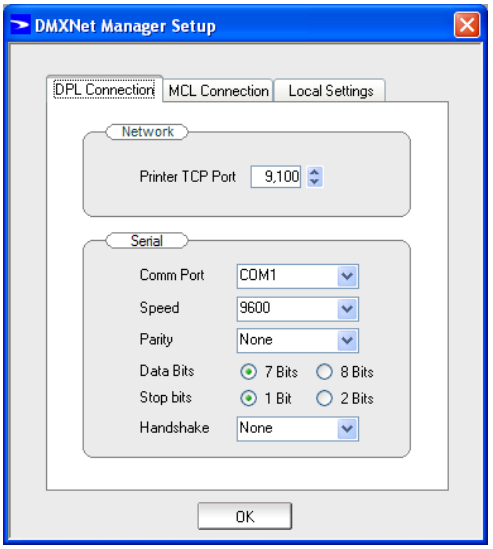
- Are common to all printers to be handled by DMXNet Manager
- Apply globally to DMXNet Manager for all printer management

Setup

To enter DMXNet Manager's setup, on the menu bar:

1 Click **Tools**
2 Click **DMXNet Manager Setup**

The DMXNet Manager Setup dialogue box is displayed as shown here



Before you can do anything using DMXNet Manager, you need to set up DMXNet Manager for initial communications with your printers for DPL Mode and MCL Mode where:

- DPL Mode refers to the mode in which DMXNet Manager communicates with the printer using DPL commands.

  DPL is the Datamax language used to print a label and control the printer. These are commands like <STX>F. Please refer to your Datamax manual for more information.

  DPL Mode is a one-way communication between Printer Manager and the printer.

- MCL Mode refers to the mode in which DMXNet Manager communicates with the printer using MCL commands to direct the printer and run MCL applications.

  These are commands like NO|001|TF|INVENTORY.DAT|AA.DAT. Please refer to your MCL-Link manual for more information.

  MCL Mode is a two-way communication between DMXNet Manager and the printer. For example, DMXNet Manager may ask for a parameter and receive values in return, or DMXNet Manager may send a file and receive an acknowledgement upon the successful completion of the transmission.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.3.1. DPL Connection

DPL Connection

Setup your printer interface for DPL Mode communications. In the DMXNet Manager Setup dialogue box:

1 Click on the **DPL Connection** tab

If you want to use network communications for your DPL commands:

2 Edit the **Printer TCP port** with the appropriate port number (typically 9100 or 3000).

Note: All the printers managed by the same instance of DMXNet Manager must be on the same TCP port for DPL communications to work. If you have some printers on TCP port 9100 and others on TCP 3000, you will need to run two copies of DMXNet Manager to manage the different printer populations.

If you have a printer with TCP port 3000 on a network of printers using TCP port 9100, DMXNet Manager will fail trying to communicate in DPL Mode with the TCP port 3000 printer. In this case, DMXNet Manager will try again to communicate with the printer but using MCL Mode this time.

See Section 2.5.3 - Main Settings, TCP Port Hint for a hint on where to find your printer's TCP port number.

If you want to use serial communications for your DPL commands:

3 Edit the **Serial** settings with values appropriate for your printers

These values may be found through the menu on your printer or in your Datamax printer manual.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

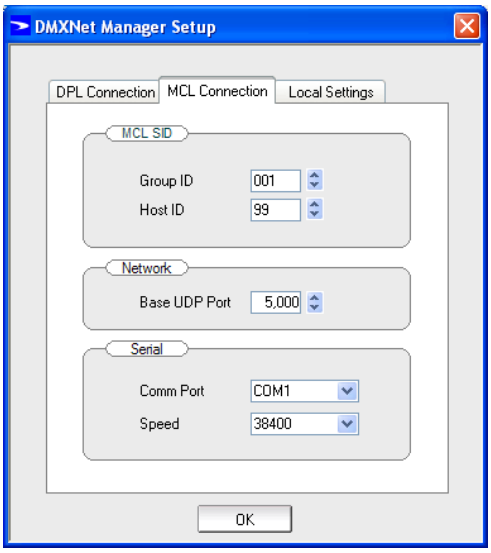
2.3.2. MCL Connection

MCL Connection

Next, setup your printer interface for MCL Mode communications. In the DMXNet Manager Setup dialogue box:

1 Click on the **MCL Connection** tab

The MCL Connection options screen is displayed as shown here



Group ID can be any number from 001 to 255. However, each instance of DMXNet Manager can only have one Group ID, and each Group ID can only have 250 printers associated with it.

In the Group ID setting, enter the value of the **Group ID** you assigned to the **printer(s)** to which you want to connect.

- Think of the Group ID as a way of segmenting your printers similar to a subnet segmentation of network devices.
- Each printer is identified by DMXNet Manager by combining Group ID + Device ID. (See Section 2.5 – Add Printer, Device ID).
- If you have, for example, 750 printers on your network, segment your printers into 3 groups of 250 printers each. Assign each of the 250 printers to the same group and assign a Group ID of 001, 002 or 003, for example, to those printers. Then assign a unique Device ID, such as a number from 001 – 250, to each of the printers within the group.

  These assignments will allow you to uniquely identify all 750 printers on your network. If you have more than 750 printers, simply run another copy of DMXNet Manager using another unique Group ID.

Host ID can be any number from 001 to 255. It is typically set to 099. This ID is used by the MCL protocol for communications between the Datamax Printers and DMXNet Manager. The Host ID is used to identify DMXNet Manager as the host for these printer communications.

UDP Port is typically 5000.

Comm Port is the port that DMXNet Manager uses on its own server when communicating serially with a printer.

Speed is the baud rate of the serial port as determined by the printer. Please reference your Datamax manual for information about serial comm speed.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

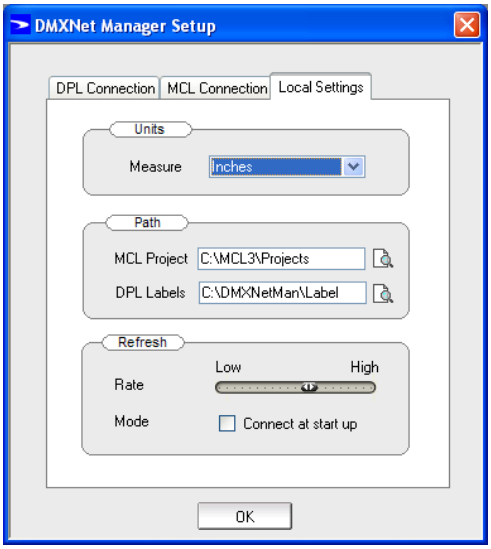
2.3.3. Local Settings

Local Settings

Next, setup the global settings that DMXNet Manager uses. In the DMXNet Manager Setup dialogue box:

1 Click on the **Local Settings** tab

The Local Settings screen is displayed as shown here



In the **Units** section, indicate what unit of measure you want to use for monitoring your rolls of labels:

2 Select **Inches** for inches or **cm** for centimeters

In the **Path** section:

3 In the **MCL Project** path box enter the path to the projects that you create using 123 Print and/or MCL-Designer and that you want to download to your printer(s) using DMXNet Manager, or click the browse icon to browse for the path to your projects folder.

4 In the **DPL Labels** box enter the path to the labels that you create using BarTender or other label generation software and that you want to download to your printer(s) using DMXNet Manager. Click the browse icon to browse for the path to your labels folder. Note: The labels you download must be in *.dpl format.

In the **Refresh** section:

5 Adjust the **Rate** slider to the desired position. This setting determines how frequently DMXNet Manager will poll your printers.

6 Next select the **Mode** of DMXNet Manager's operation. If, upon startup, you want DMXNet Manager to automatically connect to the printers you have set up to be controlled by DMXNet Manager, check the **Connect at start up** checkbox. If you want to establish the connections manually, uncheck this box.

Note: Connect at start up is only available for printers being managed by DMXNet Manager over an ethernet network.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.4. Configurations

General introduction

This section describes the concept and use of Configurations in a DMXNet Manager environment.

What is a Configuration?

A Configuration allows you to group printers together for monitoring at the same time. For example, you can view all your “Warehouse A” printers at the same time. Furthermore, within your warehouse you can identify your printers according to their functional role in your operations, such as Receiving, Putaway, and Shipping. Similarly, in a hospital environment, for example, you might group your printers by floor or by department in the hospital.

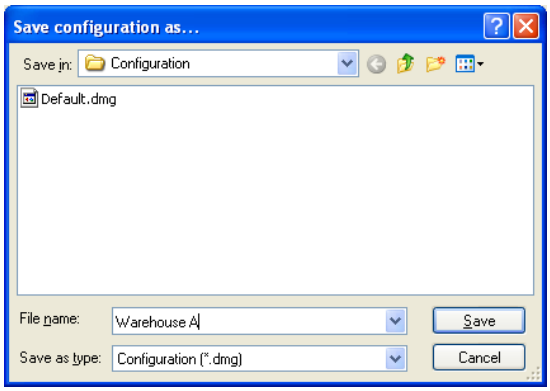
Before getting started with DMXNet Manager, plan the printer topology you want to set up to help you monitor and control your printer operations.

New Configuration

Start first by creating a new configuration. On the menu bar:

1 Click **File**
2 Click **New**
3 Click **File**
4 Click **Save As…**
5 Enter any file **name** you want. This example, uses the file name Warehouse A.

Alternatively, on the tool bar click on the New Configuration icon and then **Save As…**



Open Configuration

This example uses the above “New Configuration” procedure to create a second new configuration called Warehouse B. The printers for that facility would be included in this second configuration.

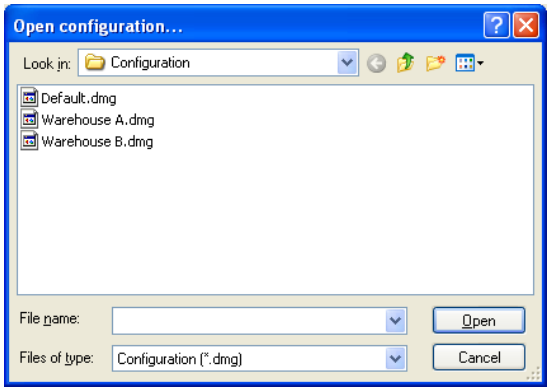
To easily monitor and control the printers across your entire network, you can shift from facility to facility by shifting from configuration to configuration using Open Configuration. On the tool bar click on the Open Configuration icon, or on the menu bar,

1 Click **File**
2 Click **Open**

The Open Configuration dialogue box is displayed as shown below

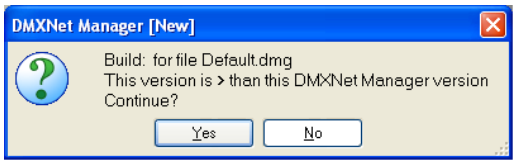
www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved



3 Select the **Configuration** you want to use
4 Click **Open**

Note: Configuration formats may change from one release of DMXNet Manager to another. If you create a configuration using a new version of DMXNet Manager and then deploy the configuration to different sites in your organization, if those sites have not upgraded their version of DMXNet Manager to the same version as you, they will receive the following warning message:



You are advised to click “No” and upgrade the version of DMXNet Manager to the same version as that used to create the configuration.

Default Configuration

When DMXNet Manager is first installed, it includes a default configuration.

You can always return to this default configuration using the Open Configuration commands and selecting the configuration “default.dmg”.

Another way to get started with your own configuration is to open the default configuration and save it as your “Warehouse A” configuration.

Save Configuration

Save your configuration from time to time as you are working on it to be sure you do not lose any of your work.

To Save your configuration, on the tool bar click on the Save Configuration icon, or on the menu bar:
1 Click **File**
2 Click **Save**

Each DMXNet Manager configuration is saved as a .dmg file with all the defined printers included in the file. Consequently, the configuration(s) you create may be used at other facilities in your organization to expedite setting up DMXNet Manager to manage the printers in those environments.

If you used the default paths when installing DMXNet Manager, your configurations are saved in:

C:\DMXNetMan\Configuration

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.5. Add Printer

General introduction

This section describes how to add your Datamax printers to your DMXNet Manager Configuration.

There are two ways of adding printers:

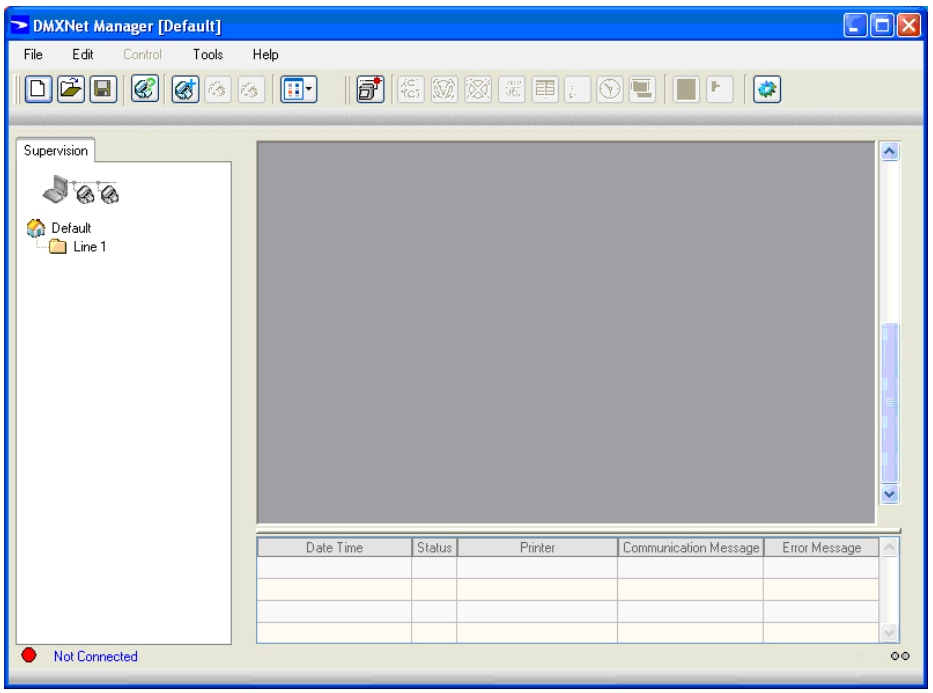
- 2.5.1. Auto-Discovery
- 2.5.2. Manually

Open configuration

Now that you have created a new configuration, start adding your printers to the configuration.

On the tool bar, click on the Open Configuration icon, or on the menu bar:

1 Click **File**
2 Click **Open**
3 Select the **Configuration** you want to use, in this case the Warehouse A configuration, as shown here



www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.5.1. Add Printer through Auto-Discovery

General introduction

This section describes how to use the DMXNet Manager Auto-Discovery function

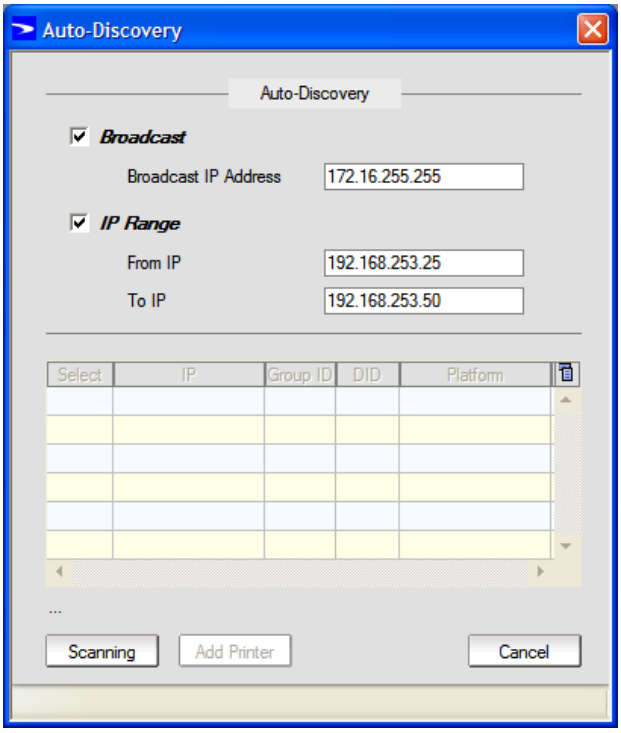
Before you can add printers to DMXNet Manager, the Datamax Text printers must be properly set up as described in Appendix B. Please do this before proceeding with this section.

Auto-Discovery modes

To start Auto-Discovery, click on the following icon .

Auto-Discovery looks on the network for Datamax printers that are communicating in MCL mode via Ethernet. You can setup Auto-Discovery to look for printers two different ways:

- Broadcasting an IP address mask.
  A broadcast is a message sent over a network to all connected printers. DMXNet Manager will send out an inquiry over the Broadcast IP address you provide. Any printers that "hear" the broadcast send a reply identifying themselves.
  To get the IP address mask to broadcast, contact your network administrator.
- Checking a range of IP address.
  IP Range means that you are interested in finding any printers on the network within the given range of IP addresses.



Choose the option(s) you want Auto-Discovery to use and set up the IP Addresses to be used.

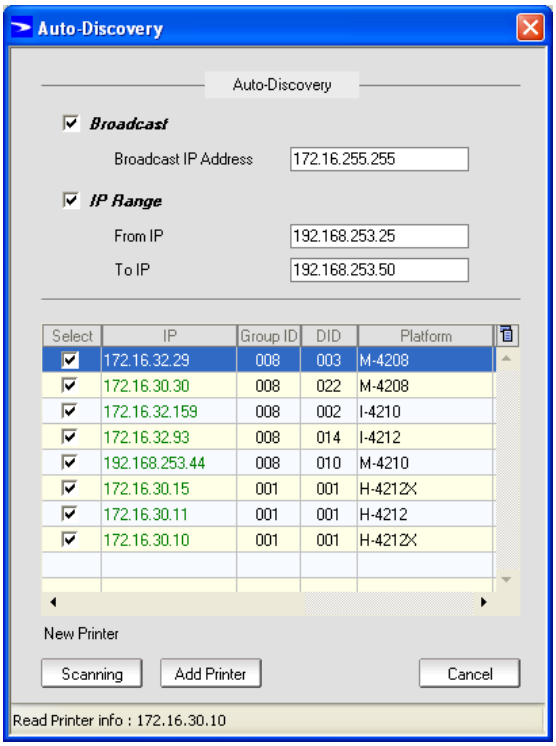
Note: To auto discover Datamax Text Printers, the Datamax Text Printers must communicate on the same subnet ID as DMXNet Manager. The Datamax Text Printers must be properly set up as described in ***Appendix B.***

This preset is not necessary for the Datamax Graphic printers.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Auto-Discovery lists the printers it finds, as shown here.



Any printer found appears in the Auto-Discovery screen.
Printers that are not in your current DMXNet Manager configuration are selected and can be added in the configuration by selecting “Add Printer”. Uncheck any printer that should not be added to the configuration.
Note that printers whose Subnet ID (only for Graphical printers) and Device ID (for all printers) have been changed locally are also selected. Leave those printers selected and click “Add Printer” to update your DMXNet Manager configuration with the revised settings.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.5.2. Add Printer Manually

General introduction

This section describes how to manually add your Datamax printers to your DMXNet Manager Configuration.

Before you can add printers to DMXNet Manager, the Datamax printers must be properly set up as described in Appendix B. Please do this before proceeding with this section.

Add new printer

There are three ways to initiate Add New Printer:

1 On the **menu bar**, click **Edit** and then select **Add New Printer,** or

2 On the **tree view** on the left of the display, **right click** on any branch of the tree, and then select **Add New Printer**

3 On the **tool bar**, click the Add New Printer icon

The Status Screen is displayed as shown below. Notice the arrow beside the Main button on the left of the screen. This indicates that the Main Settings screen is the active display.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

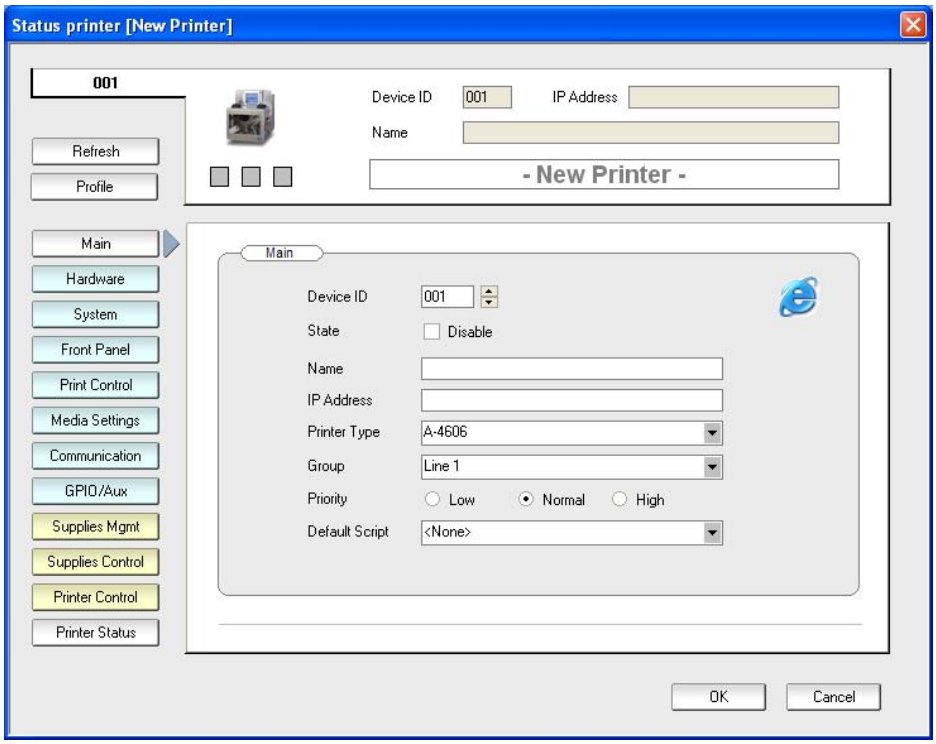
2.5.3. Main Settings

Main Settings

The Main Settings screen is displayed, as shown below, when you Add Printer.

The Main settings can be viewed and edited at any time by double clicking on an existing printer and then clicking on the Main button.

Alternatively, it may be viewed by right clicking on an existing printer and selecting Properties and then clicking on the Main button.



1 Enter the **Device ID** for this printer. This is the Device ID you gave this printer as described in Appendix B

2 You may optionally disable the printer by checking the checkbox beside **Disable**. This removes the given printer from the active list of printers to be managed by DMXNet Manager. You cannot connect to a disabled printer in Supervision Mode. However, you can connect to a disabled printer in Control Mode and perform any action available in Control Mode. If this box is not checked, the printer is considered to be **active**. For this exercise, leave the printer active.

3 Enter any **name** you want for this printer. The name must be unique for this configuration. Although you can have multiple printers in your configuration targeted on the same physical printer (i.e. all having the same IP address), you cannot have two printers with the same Device ID *and* the same name in a configuration. A name is not compulsory, but can be very useful when monitoring many printers.

4 Enter the **IP Address** for this printer. This is the IP address you gave this printer as described in Appendix B

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

5 Select the printer model you are working with (double click the appropriate model shown).

6 Enter any **Group Name**. This is the group to which you want this printer assigned in the tree view. This is a required field. It can be very useful when monitoring many printers.

7 Click the radio button with the **priority** you want to give this printer. This determines how aggressively this printer will be polled by DMXNet Manager in cooperation with the Refresh Rate setup in Section 2.3.3 – Local Settings.

To understand how this priority setting works in conjunction with the Local Settings Refresh Rate, here are the extremes (based upon current default settings):

If the **Refresh Rate** is set at its maximum **high**, the
- High priority printer is polled every 2 seconds
- Medium priority printer is polled every 5 seconds
- Low priority printer is polled every 12 seconds

If the **Refresh Rate** is set at its minimum **low**, the
- High priority printer is polled every 20 seconds
- Medium priority printer is polled every 50 seconds
- Low priority printer is polled every 120 seconds

If you set the Refresh Rate at a value between high and low, the printer polling rates will vary accordingly between the extreme polling rates indicated above.

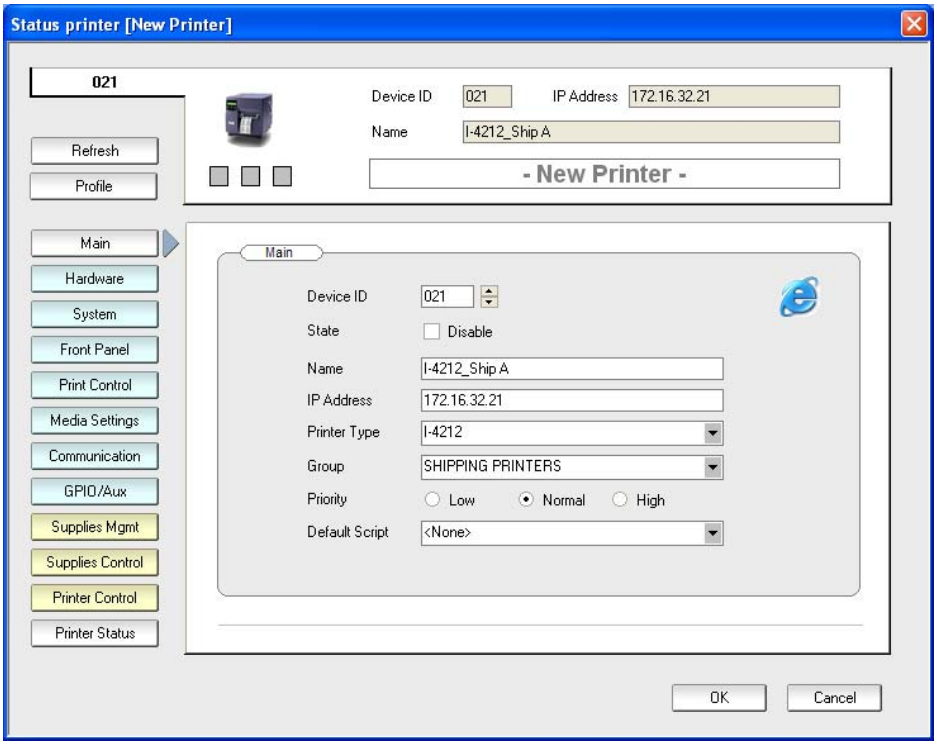
Keep in mind that when you have many printers on your network, each is polled sequentially. If a printer does not respond to a poll, DMXNet Manager times out after 1 second (based upon current default settings) trying to communicate with the printer, and then moves on to poll the next printer. If you have the Refresh Rate set to high and the priority on all your printers set to high and 250 printers on your network, all your printers will be polled within a maximum time of a little over 4 minutes even if none of the printers responded to its poll. Few environments require such real-time, aggressive polling. Consequently, the default setting for the Refresh Rate is mid-range, and the default printer priority is normal for a new printer.

8 Enter a default script if appropriate (see Section 3.5 – Scripts for more information)

9 Click **OK**

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved



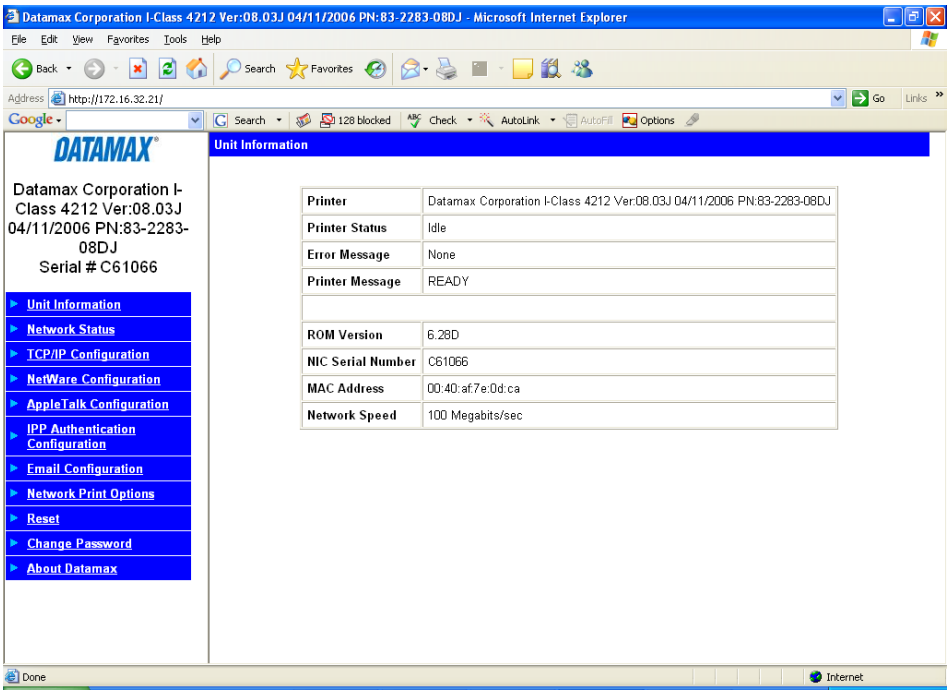
www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

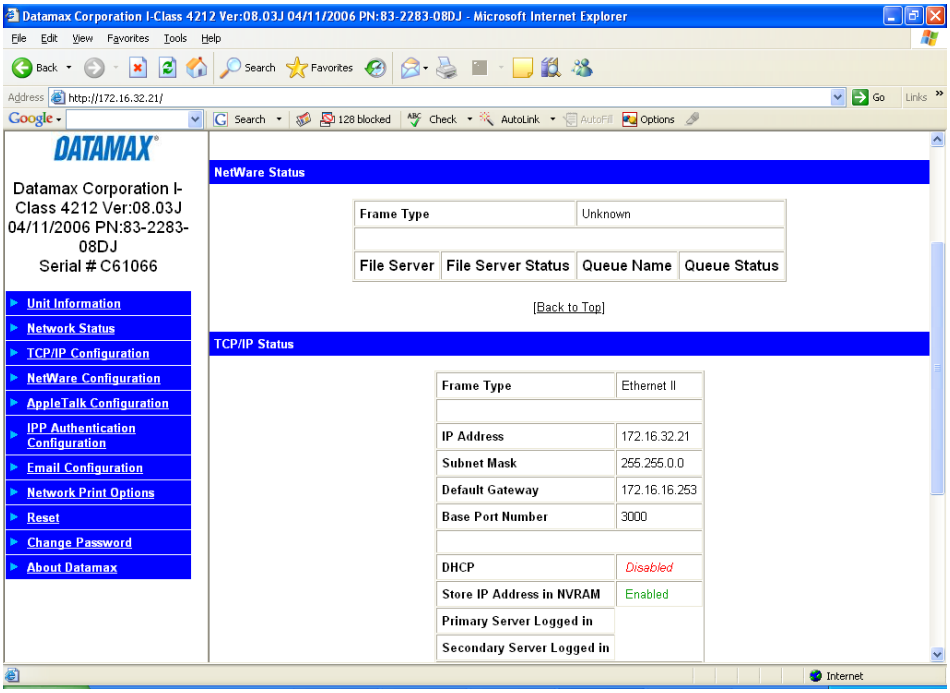
TCP Port hint

Once you have added a printer and assigned it a valid IP Address, if the printer is on the same network as DMXNet Manager, you can look up the printer's TCP port number:

1 Click the icon on the Main Settings screen to navigate to an HTML page provided on your printer by Datamax



2 Select **Network Status**. This displays a page as shown below.



Make a note of the value for **Destination Port** or **Base Port Number** (3000 in this case). This is the value you should use for the TCP Port in Section 2.3.1 – DPL Connection. You can also setup your TCP Port value on the printer through this interface.

Click on the icon on the Main Settings screen at any time for convenient access to the Datamax HTML page about your printer.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.6. Connect / Disconnect Printer

General introduction

This section describes how to manually initiate a connection and disconnection between DMXNet Manager and the printer(s) in your configuration. You can initiate a:

- Persistent connection to all printers in Supervision Mode, or
- Limited connection with just one printer in Control Mode

This manual connection initiation is only necessary if you have not selected:

Tools → DMXNet Manager Setup → Local Settings → Connect at start up

Connect at start up attempts to connect all your printers to Printer Manager automatically.

However, **disconnection** must always be done manually.

Connect Supervision Mode

Once you have added a printer or printers, connect DMXNet Manager to the printer(s).

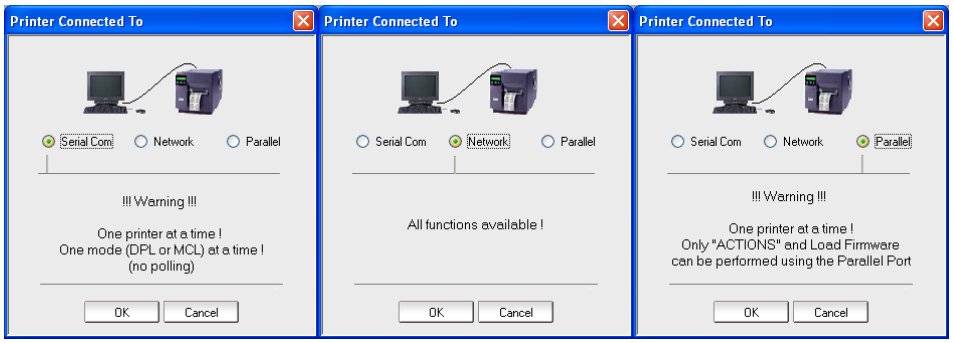
To establish a persistent connection between the printers and DMXNet Manager, on the main DMXNet Manager **tool bar**, click the Connect icon, or on the menu bar:

1 Click **Tools**
2 Click **Connect**

The **Printer Connected To** dialogue box is displayed.

Three physical means of connection are available as shown below

- Serial Com
- Network (Ethernet)
- Parparallel



Choose the interface—serial, network, or parallel cable communications—you want to use for connecting to the printer(s):

3 Select the appropriate **radio button** for your choice
4 Click OK

If you select Network, DMXNet Manager will attempt to connect to all the **active** printers in the open Configuration.

Note: DMXNet Manager can send controls to the printer, but cannot read the printer status when communications are unidirectional only. DPL Mode has unidirectional communications only. The Parallel interface also only has unidirectional communications.

If your connection from DMXNet Manager to a given printer is successful, you will see a **Ready** status for that printer:

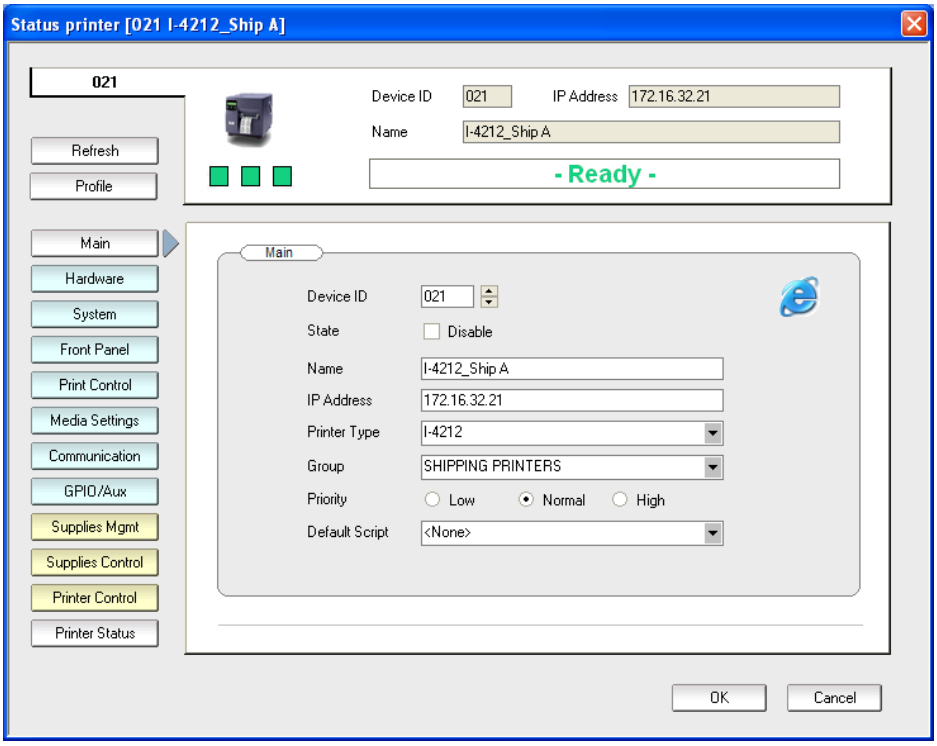
5 Double click on the printer to view the Status Screen

www.mcl-collection.com

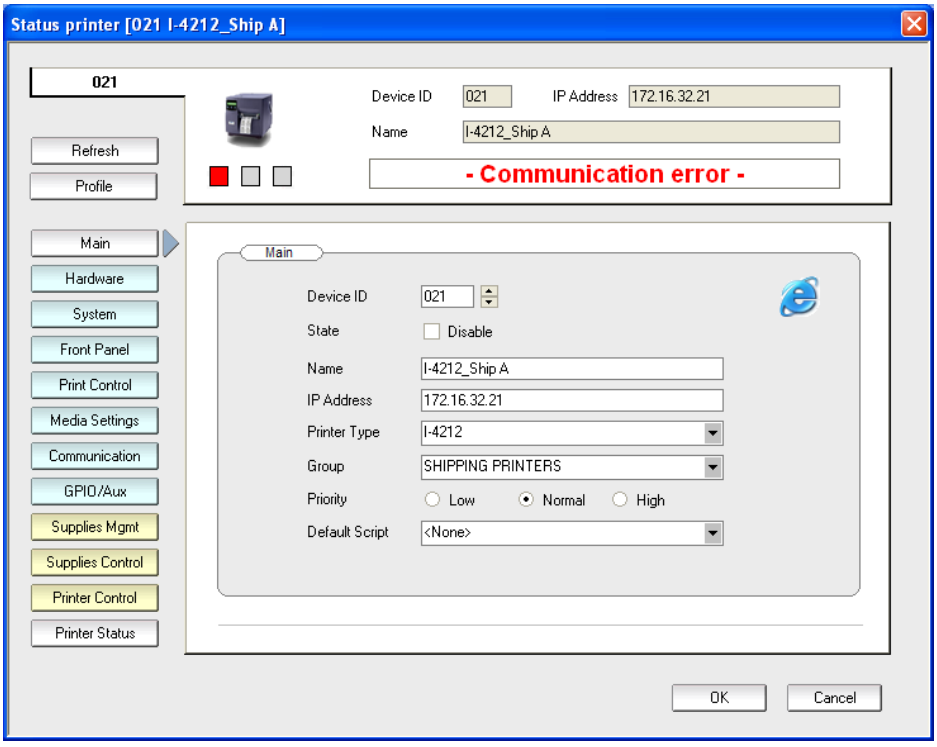
Copyright © 2010 • MCL Technologies • All Rigths Reserved

The following Status Screen is displayed when you click on the Main button found on the left of the screen. Notice " – Ready – " in the **status box** on this screen.

For additional status messages that may appear in this status box, please reference Appendix C – Printer Status Messages.



As shown below, if your connection to a printer from DMXNet Manager is unsuccessful, you will see a **Communication Error** status instead of a **Ready** status.



www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Disable printer

If you do not want all the printers to be connected/polled, simply disable the printers to which you do not want to connect before you initiate the connection. (Please see Section 2.5.3 – Main Settings for more information)

Disconnect Supervision Mode

Connect operates like a toggle.

- Connect once from the menu bar or tool bar, and all the active printers are connected.
- Connect a second time from the menu bar or tool bar, and all the connected printers are disconnected.

Note: For connection, the printers must be “reachable” by DMXNet Manager. That is to say, the active printers identified in the Configuration must be physically connected via the selected communications interface—serial, network, or parallel.

Connect Control Mode

To establish a limited connection between just one printer and DMXNet Manager:

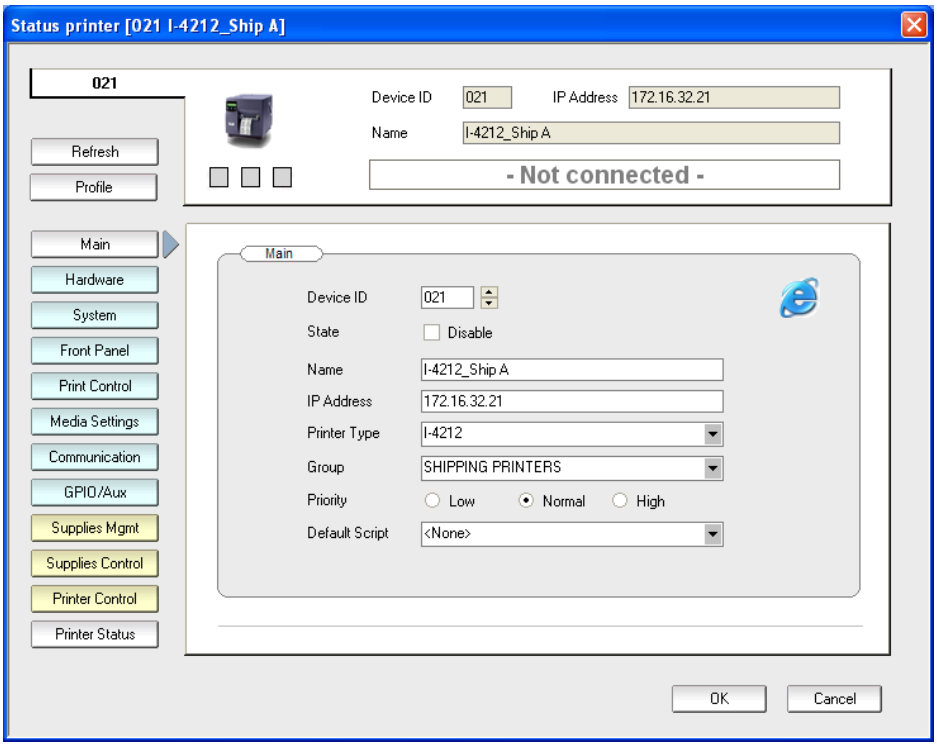
6 **Double click** on the printer in the Printer Window or tree view

Alternatively, on the tree view

7 **Right click** on the printer

8 Click **Properties**

The following Status screen is displayed when you click on the Main [Main] button found on the left of the screen. Notice “ – Not connected – “ in the **status box** on this screen.



9 Click the Refresh [Refresh] button

The **Printer Connected To** dialogue box is displayed as described above.

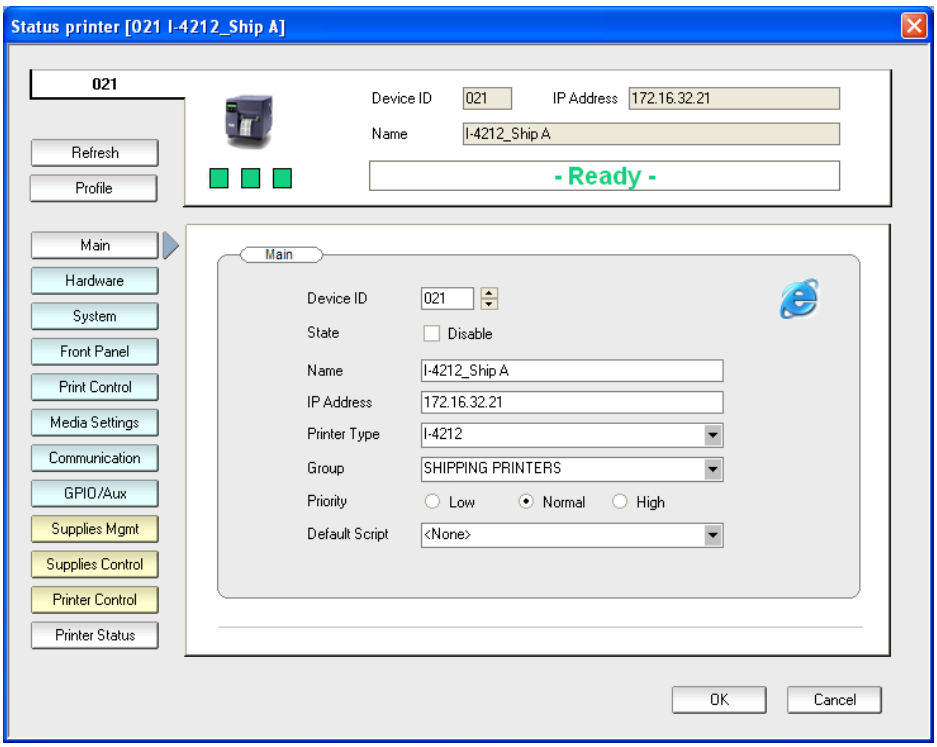
10 Select the appropriate **radio button** for your choice of communications interface

11 Click **OK**

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

When the connection is successfully established in MCL Mode, a " – Ready – " status is displayed in the status box as shown below



You may now perform any of the functions accessible from this screen.

When you are done working with this screen and you click OK or Cancel to leave the screen, DMXNet Manager disconnects the printer.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.7. Edit Printer – Initial Setup

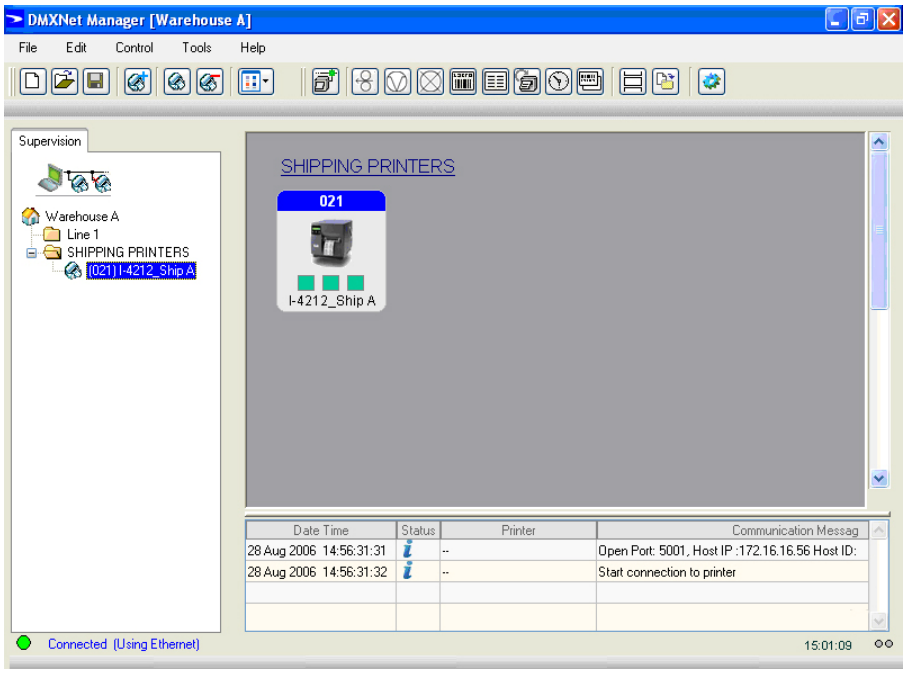
General introduction

This section describes how to configure your printers using DMXNet Manager.

You are working in Control Mode when you are editing printer settings.

Printer Properties

Once you have added a printer to your configuration and connected to it, you are ready to setup the printer for your environment. The various printer setting options are reached through the Edit Printer command.



Edit Printer

There are several ways to initiate Edit Printer:

1 On the **menu bar**, click Edit and then select Printer Properties, or

2 On the **tool bar**, click the Edit Printer icon

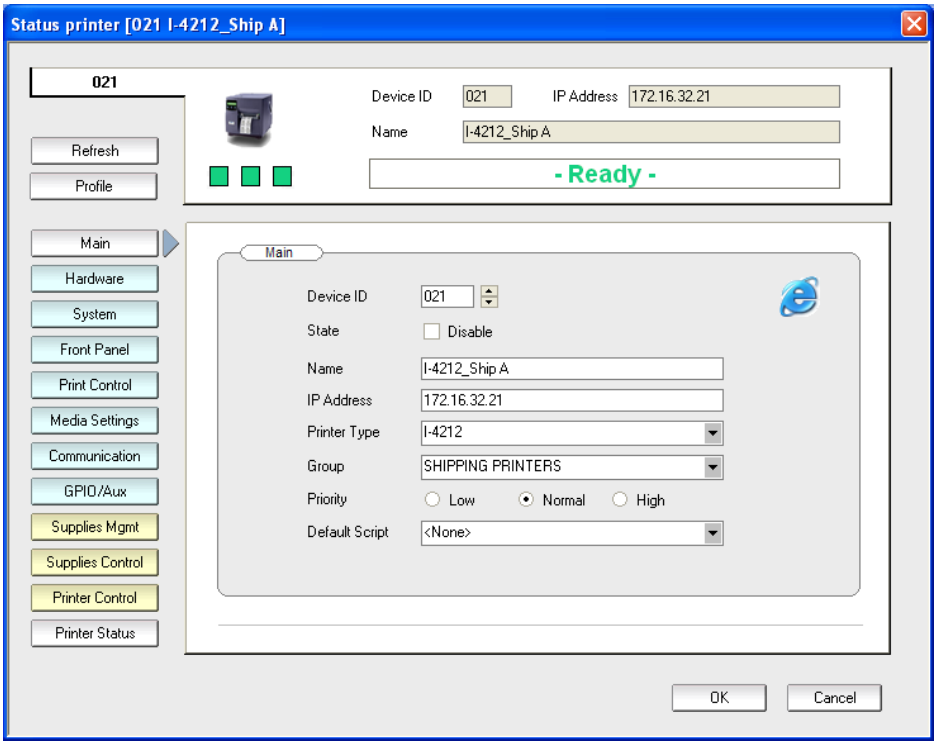
3 On the **tree view** on the left of the display,
- **double click** on the printer whose settings you want to edit,
- or **right click** on the printer and select **Properties**

4 In the Printer Window in the middle of the display,
- **double click** on the printer whose settings you want to edit,
- or **right click** on the printer and select **Properties**

A Status Screen is displayed as shown below

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved



The remainder of this chapter discusses the settings that are reached from this Status Screen. They correspond to the light green buttons found on the left-hand side of the screen.

The ▶ arrow beside one of the buttons indicates which settings screen is the active screen. In the above example, the Main Settings screen is the active screen.

Common functionality

Each of the setting screens discussed in the following sections has a **Read** Read, **Default** Default, and **Apply** Apply button at the bottom of its display.

If you are connected to the printer whose settings you are editing, you can read the printer's current values for the settings that correspond to the screen you are on.

You can change the values of any of the settings. If you edit the settings and then click Apply, the revised settings are sent to your printer.

To restore the printer settings for the given category to their Datamax recommended default settings, click Default and then click Apply. Datamax's recommended settings are sent to your printer.

On each of the screens:

1 Click **Read** to retrieve current printer settings for the giving screen
2 **Modify** the values to your desired custom settings
3 Click **Apply** to send the new values to your printer

If the printer has the settings you want,

4 Click **Read** to retrieve current printer settings for the giving screen
5 Click **Ok** to update your DMXNet Manager configuration with these setting values

Alternatively, to restore the printer to Datamax recommended values:

1 Click **Default**
2 Click **Apply**

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

If DMXNet Manager is not connected to the printer whose settings you are trying to read, you will be notified of the operation failure through various status dialogue boxes as shown below.

1 If one of these errors occurs, return to the **Connect Printer** step of the setup as described in Section 2.6.

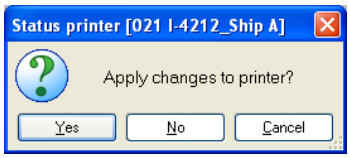
Save Changes

When you have made all the changes you want to a printer's settings, save the changes

1 Click OK on the **Status Screen**

Your changes are automatically saved in your Configuration.

You are then prompted to apply the changes to the printer as well.



2 Click **Yes** to apply the changes

Please note that as you proceed through the setting screens discussed in the following sections, you have the option to apply those settings to the printer. Those settings will not be undone if you click "No" here.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.7.1. Hardware Settings

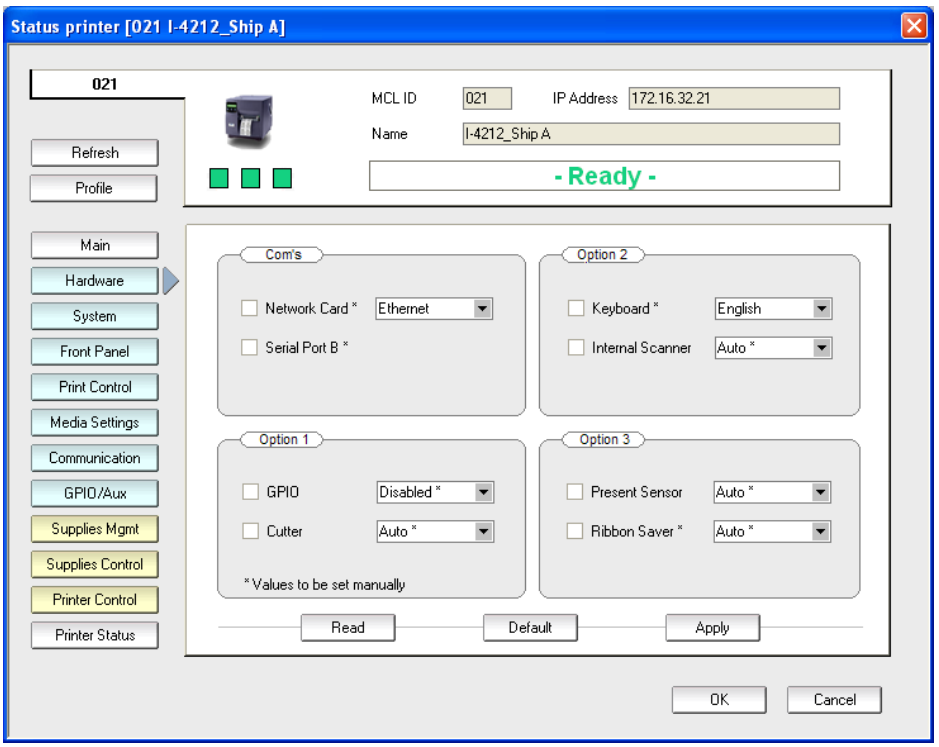
Hardware settings

To change the printer's hardware settings:

1 Click on the **Hardware** Hardware button found on the left of the Status Screen

The Hardware settings screen is displayed as shown below. Please reference your Datamax manual for information about these settings.

Note the ▶ arrow beside the Hardware button to show that this is the active display.



Please notice the comment on this screen:

**Values to be set manually*

This means that, if you require the parameter flagged with the * character, you need to set the associated value yourself.

The significance of * is defined on this screen only. However, it is used on other screens with the same significance.

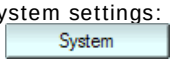
www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.7.2. System Settings

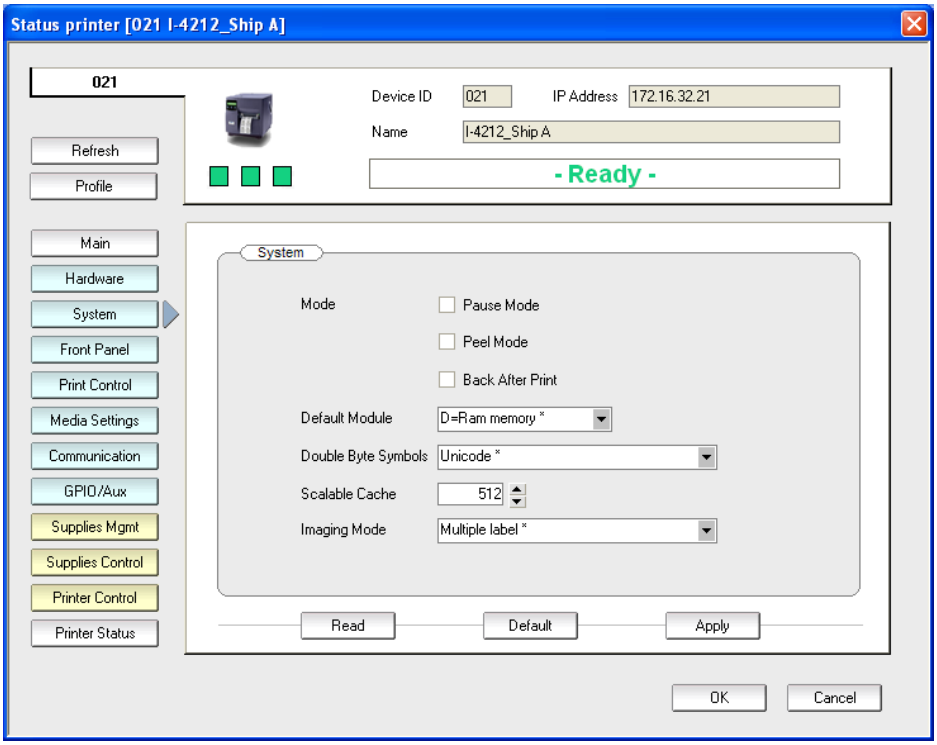
System settings

To change the printer's system settings:

1 Click on the **System**  button found on the left of the Status Screen

The System settings screen is displayed as shown below. Please reference your Datamax manual for information about these settings.

Note the ▶ arrow beside the System button to show that this is the active display.



www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.7.3. Front Panel Settings

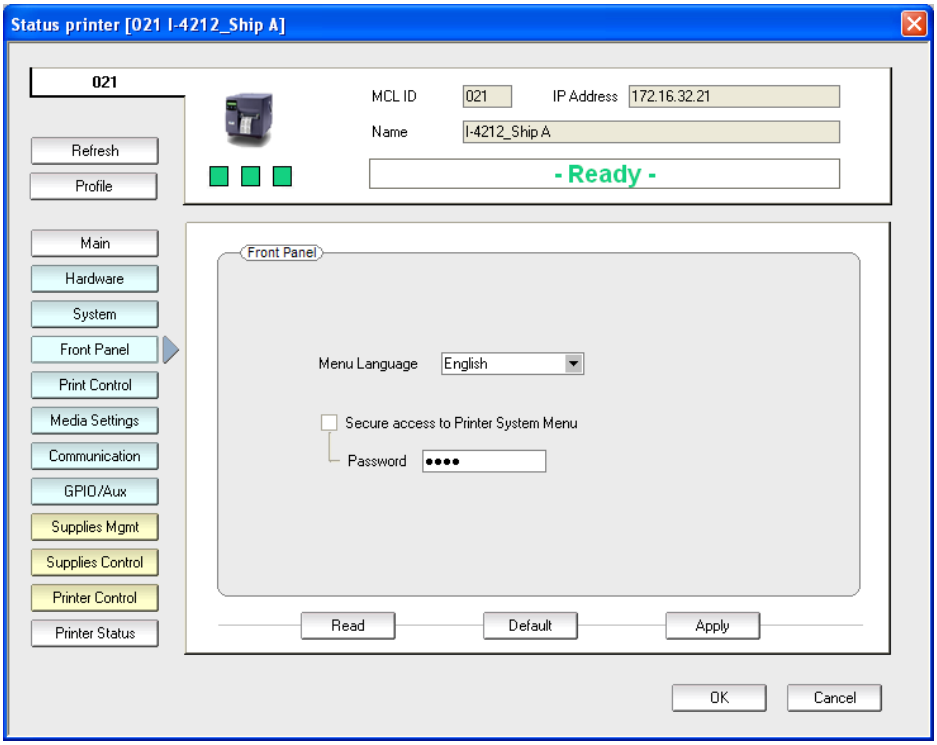
Front Panel settings

To change the printer's front panel settings:

1 Click on the **Front Panel** Front Panel button found on the left of the Status Screen

The Front Panel settings screen is displayed as shown below. Please reference your Datamax manual for information about these settings.

Note the ▶ arrow beside the front Panel button to show that this is the active display.



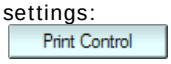
www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.7.4. Print Control Settings

Print Control settings

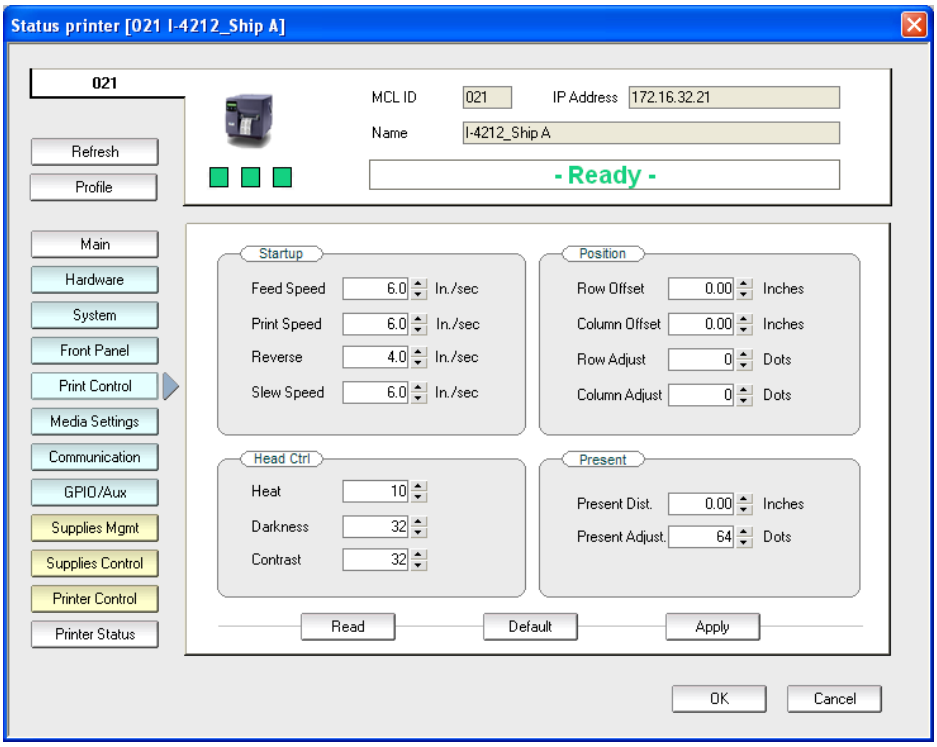
To change the printer's control settings:

1 Click on the **Print Control** 

button found on the left of the Status Screen

The Print Control settings screen is displayed as shown here. Please reference your Datamax manual for information about these settings.

Note the ▶ arrow beside the Print Control button to show that this is the active display.

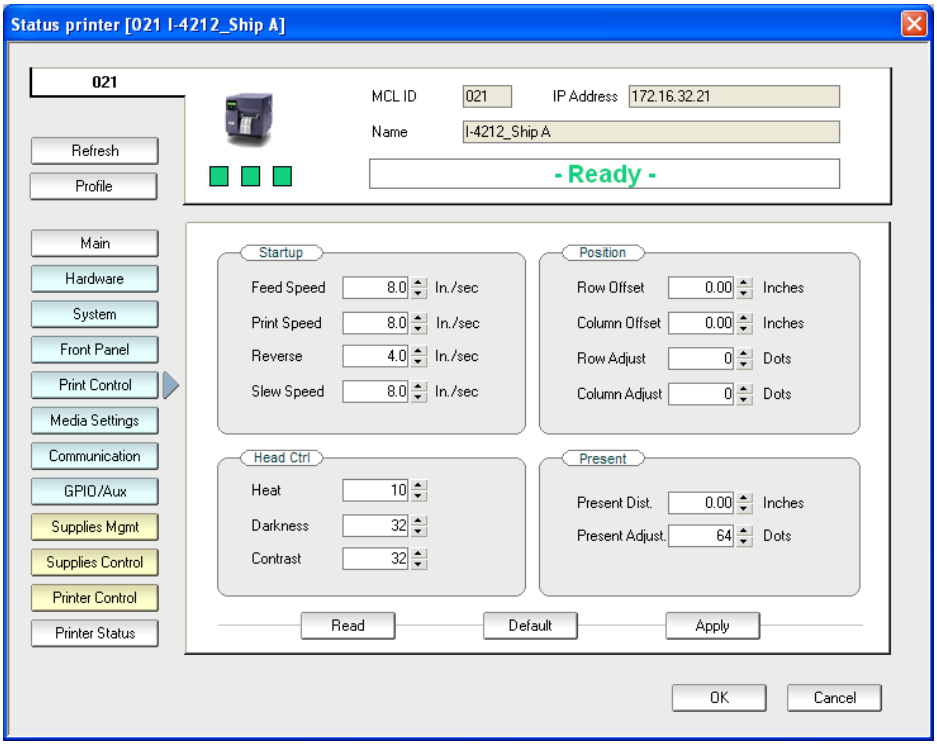


1 Click **Read**

Below shows the results of a read of one of our printers

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved



2 Click **OK** to update your DMXNet Manager's configuration for this printer with these values

3 Or **modify** these settings to the desired values and click **Apply** to update your printer with the desired settings.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.7.5. Media Settings

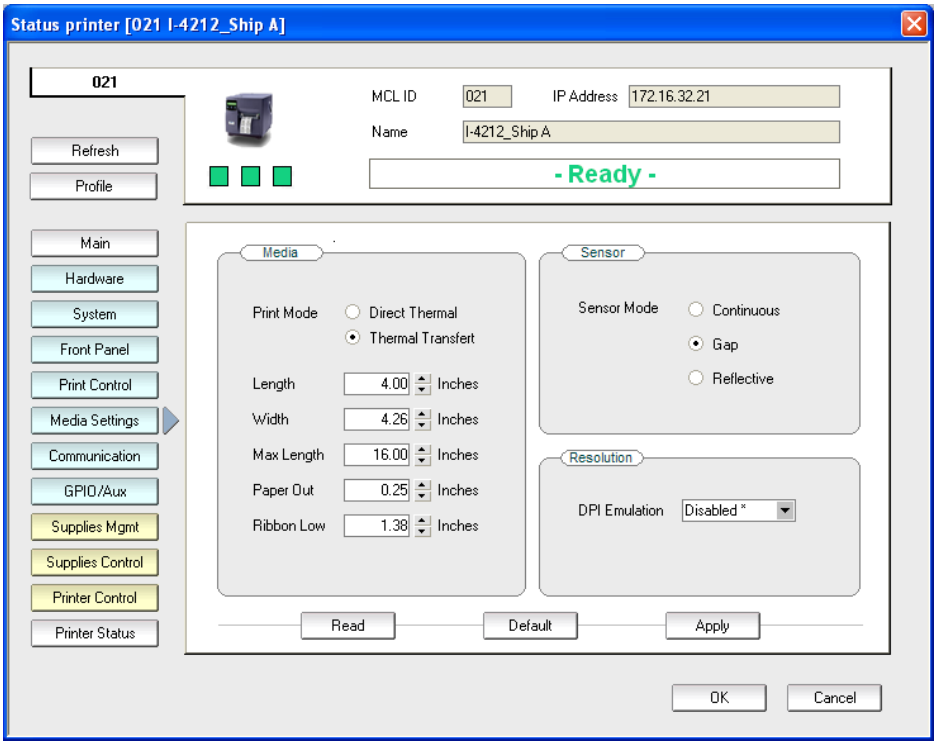
Media settings

To change the printer's media settings:

1 Click on the **Media Settings** Media Settings button found on the left of the Status Screen

The Media Settings screen is displayed as shown below. Please reference your Datamax manual for information about these settings.

Note the ▶ arrow beside the Media Settings button to show that this is the active display.



www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.7.6. Communication Settings

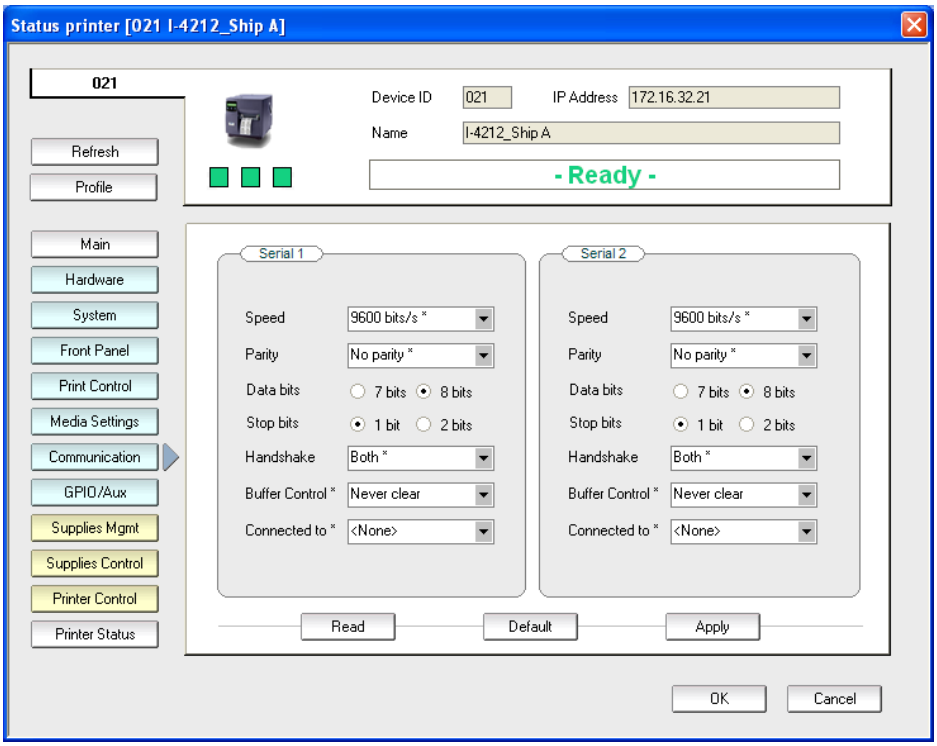
Communication settings

To change the printer's communication settings:

1 Click on the **Communication** Communication button found on the left of the Status Screen

The Communications Settings screen is displayed as shown below. Please reference your Datamax manual for information about these settings.

Note the ▶ arrow beside the Communication button to show that this is the active display.



www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.7.7. GPIO and Auxiliary Settings

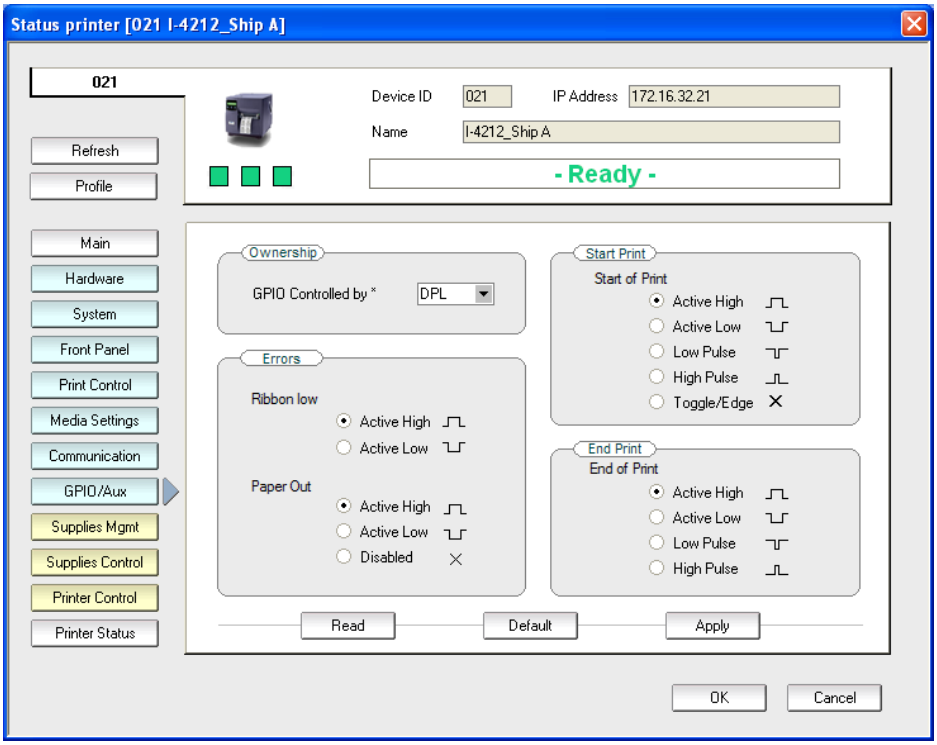
Printer GPIO and Auxiliary settings

To change the printer's GPIO and auxiliary settings:

1 Click on the **GPIO/Aux** GPIO/Aux button found on the left of the Status Screen

The GPIO/Aux settings screen is displayed as shown below. Please reference your Datamax manual for information about these settings.

Note the ▶ arrow beside the GPIO/Aux button to show that this is the active display.



www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.8. Duplicate Printer

General introduction

If you have other printers on your network with the same properties as one that you have already added and edited, rather than going through the entire add and edit process for the other printer(s), you can simply duplicate the one you have already set up.

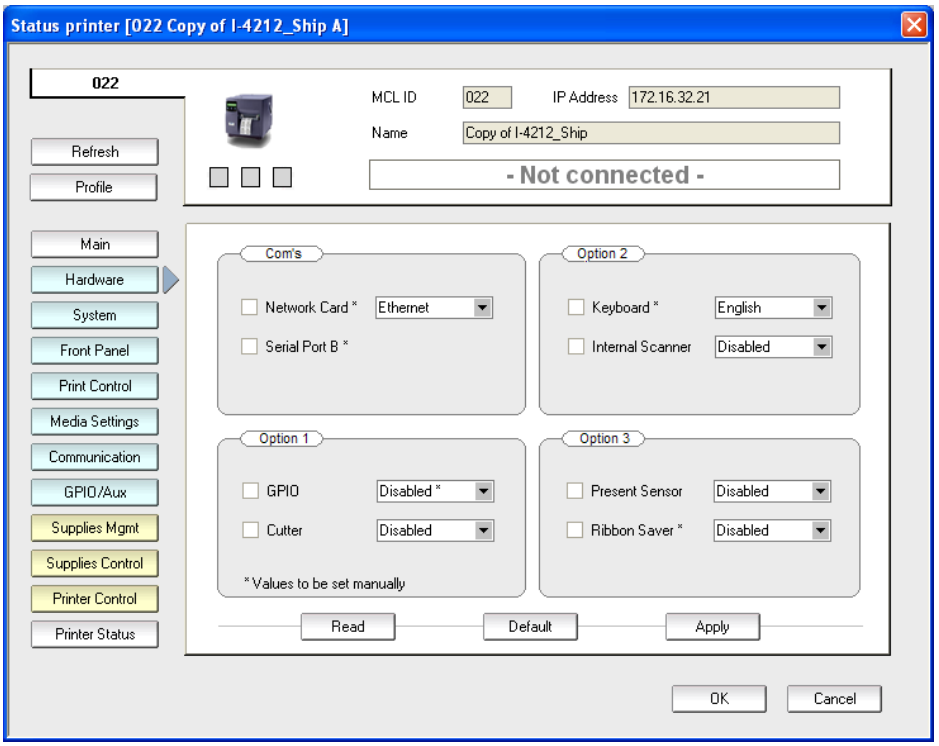
This section describes how to duplicate a printer.

Duplicate a printer

There are three ways to initiate Duplicate Printer in your configuration:

1 On the **tree view** on the left of the display, **right click** on the printer you added and select **Duplicate Printer**
2 In the Printer Window in the middle of the display, **right click** on the printer you added and select Duplicate Printer
3 On the tree view or in the Printer Window, select the printer you want to duplicate. Then, on the **menu bar**, click **Edit** and then select Duplicate Printer.

DMXNet Manager creates a “copy” of your printer settings excluding the Supplies Control settings, Printer Status settings, and some Main settings. It excludes settings that would not be relevant to the duplicate printer.



Edit the duplicate printer’s Main settings to the appropriate values:

4 Click **Main**
5 Edit **Device ID**
6 Edit **Name** (optional)
7 Edit **IP Address**
8 Edit **Group**

Similarly edit the duplicate printer’s Supplies Control settings, and Printer Status settings.

9 Click **OK**

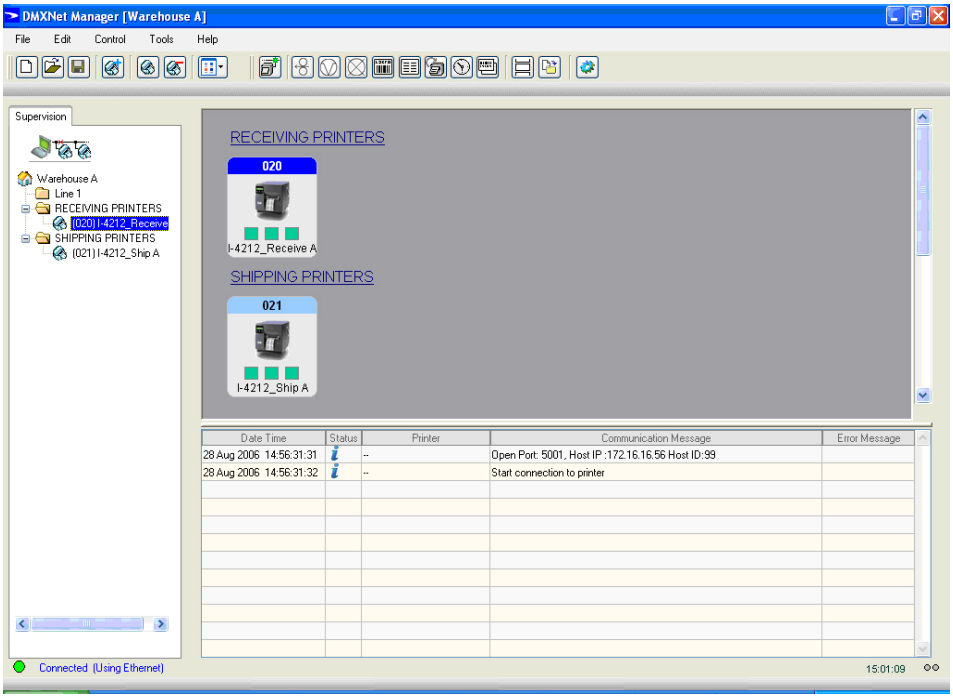
If you have previously selected:

Tools → DMXNet Manager Setup → Local Settings → Connect at start up,

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

DMXNet Manager immediately attempts to retrieve the duplicate printer's information as shown below.



In this example, in Main Settings, the duplicate printer was given the name I-4212_Receive A and assigned to a new group called Receiving Printers.

Notice that the tree view on the left of the screen was automatically updated to reflect the new printer topology.

Continue adding new printers or duplicating existing printers until you have added up to 250 printers on your network to DMXNet Manager.

To manage more than 250 printers at a time, you will need to run additional copies of DMXNet Manager, each on a different server.

If you attempt to have more than 250 printers to DMXNet Manager, you will receive an error message as shown below.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.9. Delete Printer

General introduction

If you no longer want to manage a printer via DMXNet Manager, you can delete it from your DMXNet Manager configuration.

This section describes how to delete a printer.

Delete a printer

You can delete a printer from a configuration.

1 On the tree view or the Printer Window, click on the **printer** you want to delete

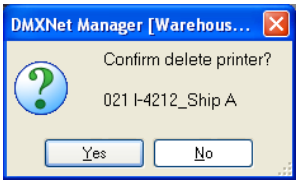
You can then delete the printer in any one of three ways:

2 On the **menu bar**, click **Edit** and then select **Delete Printer**

3 On the **tool bar**, click the Delete Printer icon

4 On the tree view or in the Printer Window, **right click** on the printer and then select **Delete Printer**

You are prompted to confirm that you want to delete this printer as shown here



5 Click **Yes** to delete

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2.10. Profiles

General introduction

Once a printer is properly setup, its properties may be saved in a profile for use on other printers.

This section describes how to use profiles.

Save profile

To save a printer's setup in a profile:

1 On the tree view or the Printer Window, double click on the **printer** whose properties you want to save

2 On the Status Screen, click on the **Profile**

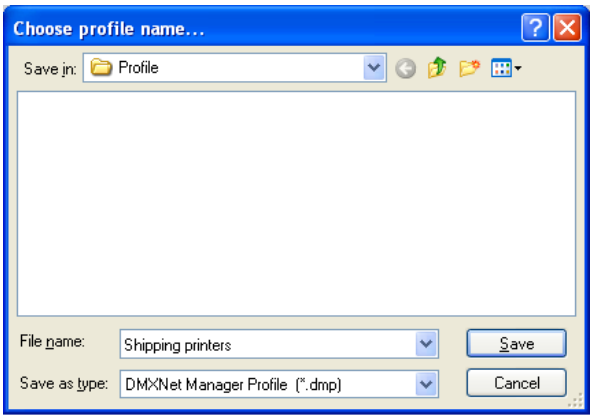
button

3 Select **Save Profile…**

A save profile dialogue screen is displayed as shown below

4 Enter the **file name** into which you want to save the profile

5 Click **Save**



Load profile

Once a printer profile has been saved, it may be used to give another printer the identical setup:

1 On the tree view or the Printer Window, double click on the **printer** to which you want to apply the profile

2 On the Status Screen, click on the **Profile**

button

3 Select **Load Profile…**

A load profile dialogue screen is displayed as shown below.

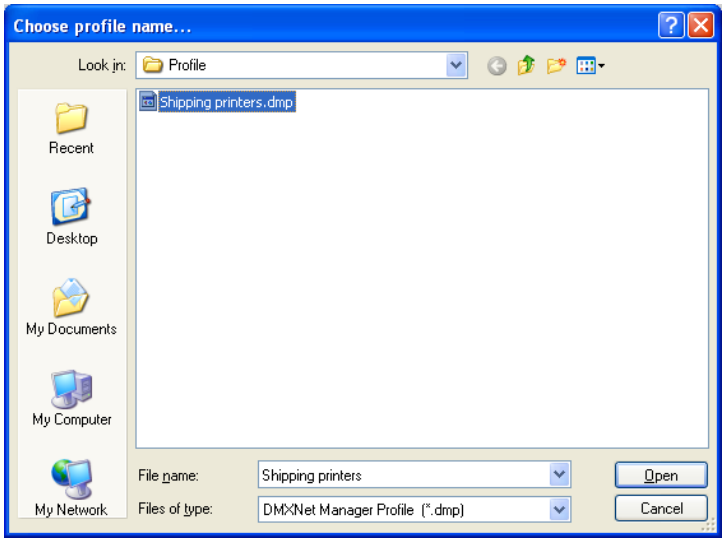
4 **Select** the profile you want to load

5 Click **Open**

6 Click **OK** to save these properties for this printer

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved



Apply profile

Once a profile has been loaded, it can be applied to the printer. To apply a profile, the given printer must be connected to DMXNet Manager.

Printer profiles do not include printer specific information. The Main settings, Supplies Mgmt settings, and Supplies Control settings are not saved in profiles. Therefore, before you apply a profile to a printer, you must set up, at a minimum, the settings necessary to make a connection to the printer from DMXNet Manager. The settings of concern are those like Device ID and IP Address. Please see Section 2.6 – Connect / Disconnect Printer for more information.

1 Select the target printer and load a profile as described above

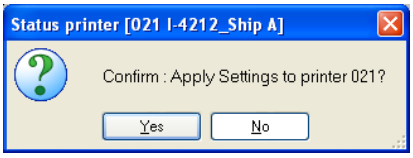
2 On the Status Screen, click on the **Profile** Profile button

3 Select **Apply Profile…**

You are prompted to confirm that you want to apply this profile to the printer with the given Device ID as shown below. In this example, the printer has Device ID = 020.

4 Click **Yes** to confirm and proceed with applying this profile

5 Click **No** to cancel the operation



Each printer profile is saved as a .dmp file. Consequently, the profile(s) you create may be used at other facilities in your organization to expedite printer setup.

If you used the default paths when installing DMXNet Manager, your profiles are saved in:

C:\DMXNetMan\Profile

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

3. Printer Management

Overview

Chapter 3 introduction

This chapter discusses the operations that you will perform repeatedly during the on-going management of your Datamax printers.

Description

Management of your printers using DMXNet Manager involves:

- Printer supervisory capabilities
- Printer control capabilities

Topics

This chapter covers the following topics:

	Topic	Page
3.1	Configuration Views	51
	▪ 3.1.1 Icons View	
	▪ 3.1.2 Details View	
	▪ 3.1.3 Tree View and Groups	
	▪ 3.1.4 Communication Log Files	
3.2	Edit Printer – Control and Management	61
	▪ 3.2.1 Supplies Management Settings	
	▪ 3.2.2 Supplies Control Settings	
	▪ 3.2.3 Printer Control Settings	
	▪ 3.2.4 Printer Status	
3.3	Printer Control	68
3.4	Load File / Control	73
	▪ 3.4.1 Load Firmware	
	▪ 3.4.2 Load Font	
	▪ 3.4.3 Load Graphic	
	▪ 3.4.4 Load Label	
	▪ 3.4.5 Send Any DPL File	
	▪ 3.4.6 DPL Control	
	▪ 3.4.7 Load Data File	
	▪ 3.4.8 Load Profile	
	▪ 3.4.9 Load MCL-Project	
	▪ 3.4.10 MCL Agent Control	
	▪	
3.5	Scripts	88
	3.5.1 Script Actions	
	3.5.2 Script Building	
	3.5.3 Script Save	
	3.5.4 Script Open	
	3.5.5 Script Execution	

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.1. Configuration Views

General introduction

This section discusses DMXNet Manager's configuration display views. These views are thought of as working in **Supervision Mode**.

Description

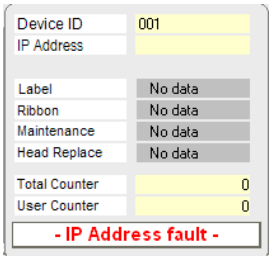
DMXNet Manager provides two views of your configurations—icons and details.

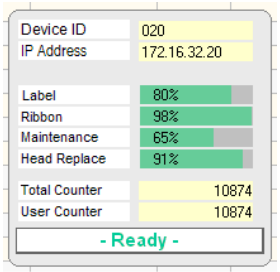
Whether in Icons View or Details View, if you pass your computer mouse over a printer entry in the Printer Window, you will see a printer status summary like that shown below.

The first sample printer status is the default status displayed when you initially Add a Printer to a Configuration.

The second sample status is for a connected printer.

Note: This status is not refreshed automatically. Move your mouse away and then pass it back over the printer again to refresh the information.





The Device ID and IP Address are the values you entered for this printer.

Next, percentages are shown for the printer's current supply levels. These indicate how much supply or component life remains in the printer for the given supply/component.

For example, the label status shown in this example is 80%. This means that the label roll is still 80% full. In other words, only 20% of the roll has been consumed.

Similar, at 91% the printer head is very new.

The Total Counter and User Counter are the same as Absolute Counter and Resettable Counter on your Datamax printer respectively.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

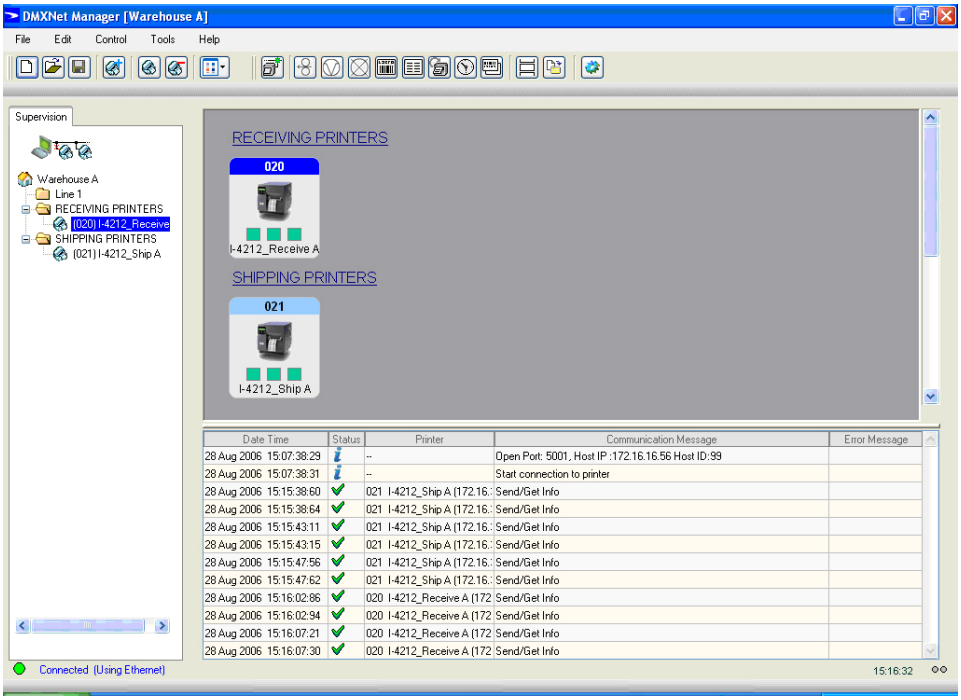
3.1.1. Icons View

Icons view

To see your configuration with an icon view of the Printer Window, on the tool bar:

1 Click the Views icon
2 Select **icons**

The printers are displayed as icons as shown here


DMXNet Manager [Warehouse A]
File Edit Control Tools Help
Supervision
Warehouse A
Line 1
RECEIVING PRINTERS
[020] I-4212_Receive
SHIPPING PRINTERS
[021] I-4212_Ship A
RECEIVING PRINTERS
020
I-4212_Receive A
SHIPPING PRINTERS
021
I-4212_Ship A
Date Time Status Printer Communication Message Error Message
28 Aug 2006 15:07:38:29 -- Open Port: 5001, Host IP :172.16.16.56 Host ID:99
28 Aug 2006 15:07:38:31 -- Start connection to printer
28 Aug 2006 15:15:38:60 021 I-4212_Ship A (172.16.. Send/Get Info
28 Aug 2006 15:15:38:64 021 I-4212_Ship A (172.16.. Send/Get Info
28 Aug 2006 15:15:43:11 021 I-4212_Ship A (172.16.. Send/Get Info
28 Aug 2006 15:15:43:15 021 I-4212_Ship A (172.16.. Send/Get Info
28 Aug 2006 15:15:47:56 021 I-4212_Ship A (172.16.. Send/Get Info
28 Aug 2006 15:15:47:62 021 I-4212_Ship A (172.16.. Send/Get Info
28 Aug 2006 15:16:02:86 020 I-4212_Receive A (172 Send/Get Info
28 Aug 2006 15:16:02:94 020 I-4212_Receive A (172 Send/Get Info
28 Aug 2006 15:16:07:21 020 I-4212_Receive A (172 Send/Get Info
28 Aug 2006 15:16:07:30 020 I-4212_Receive A (172 Send/Get Info
Connected (Using Ethernet)
15:16:32

This “icon” view of a configuration is the default view used by DMXNet Manager. It presents:

- On the left, a tree view of your printers
- In the middle, a view of the printers as icons in the Printer Window
- Across the bottom third, a message log showing the communications between DMXNet Manager and the printers
- Across the very bottom, a status bar about the selected printer

The message log window may be sized vertically by moving its top window frame up or down.

The messages in the message log may be sorted by any column by clicking the appropriate column header.

The status icons in the message log have the following significance:

= Information
= Communication successful
= Communication error
= Establishing communications with printer

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Status indicators

Each printer icon displays three status indicators beneath the printer image:

- The left most indicator is the **Connection Status**
  - Blue = DMXNet Manager is doing a printer check (poll)
  - Green = DMXNet Manager is connected
  - Red = DMXNet Manager failed to connect
  - Gray = DMXNet Manager is not connected
- The middle indicator is the **Printer Status**
  - Green = printer is ready
  - Orange = printer is busy / paused
  - Red = printer has a problem
  - Gray = no information is available
- The right most indicator is the **Media Status**
  - Green = printer is ready
  - Orange = warning media running low
  - Red = operator action is needed for printer maintenance or for label, ribbon, or printer head replacement.
  - Gray = no information is available, or no warning levels are set in Supplies Management

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.1.2. Details View

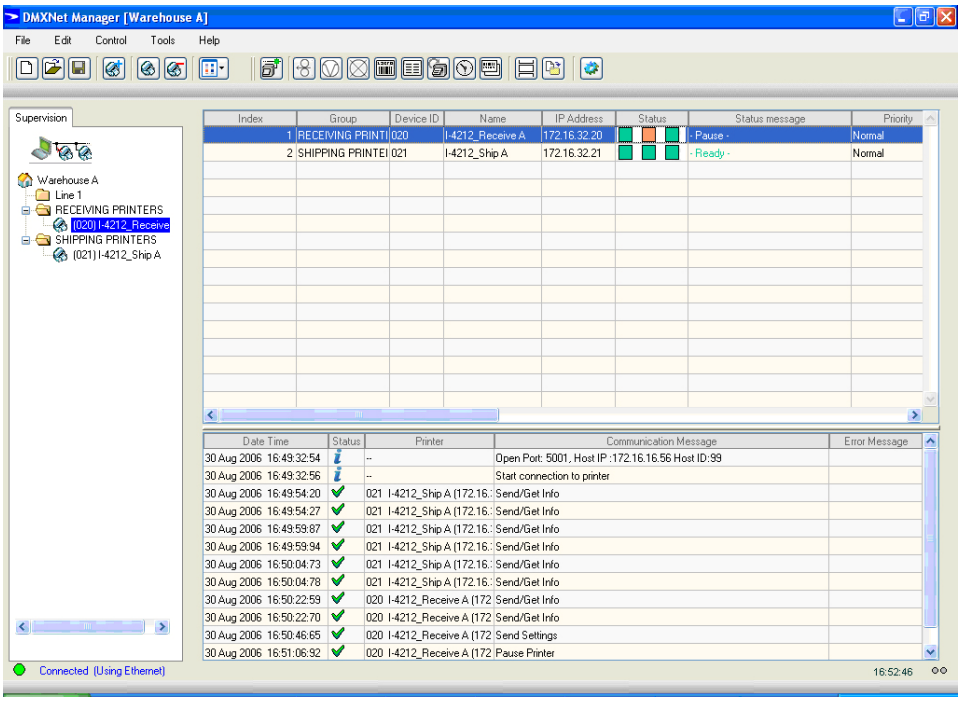
Details view

To see your configuration with a details view of the Printer Window, on the tool bar:

1 Click the Views icon
2 Select **details**

The printers are displayed with detailed information in the Printer Window as shown below. The remainder of the display is the same as that for the icons view.

As with the icons view, the message log window may be sized vertically by moving its top window frame up or down.


DMXNet Manager [Warehouse A]
File
Edit
Control
Tools
Help
Supervision
Warehouse A
Line 1
RECEIVING PRINTERS
[020] I-4212_Receive
SHIPPING PRINTERS
[021] I-4212_Ship A
Index
Group
Device ID
Name
IP Address
Status
Status message
Priority
1 RECEIVING PRINTI 020 I-4212_Receive A 172.16.32.20 - Pause - Normal
2 SHIPPING PRINTEI 021 I-4212_Ship A 172.16.32.21 - Ready - Normal
Date Time
Status
Printer
Communication Message
Error Message
30 Aug 2006 16:49:32:54 -- Open Port: 5001, Host IP :172.16.16.56 Host ID:99
30 Aug 2006 16:49:32:56 -- Start connection to printer
30 Aug 2006 16:49:54:20 021 I-4212_Ship A (172.16.: Send/Get Info
30 Aug 2006 16:49:54:27 021 I-4212_Ship A (172.16.: Send/Get Info
30 Aug 2006 16:49:59:87 021 I-4212_Ship A (172.16.: Send/Get Info
30 Aug 2006 16:49:59:94 021 I-4212_Ship A (172.16.: Send/Get Info
30 Aug 2006 16:50:04:73 021 I-4212_Ship A (172.16.: Send/Get Info
30 Aug 2006 16:50:04:78 021 I-4212_Ship A (172.16.: Send/Get Info
30 Aug 2006 16:50:22:59 020 I-4212_Receive A (172 Send/Get Info
30 Aug 2006 16:50:22:70 020 I-4212_Receive A (172 Send/Get Info
30 Aug 2006 16:50:46:65 020 I-4212_Receive A (172 Send Settings
30 Aug 2006 16:51:06:92 020 I-4212_Receive A (172 Pause Printer
Connected (Using Ethernet)
16:52:46

In the Printer Window, you can hide any of the columns you do not want to see:

3 Right click any of the **column headers** in the printer display window

A list of all the possible information columns is displayed. By default, all of the columns are displayed. To hide a column:

4 **Uncheck** the checkbox beside the name of the column(s) you want to hide

At any time, you can re-enable the display of the column:

5 **Check** the checkbox beside the column name(s) you want to display

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Column descriptions

These columns give detailed status information about each printer:

- Group
  - Assigned by you when adding a printer to DMXNet Manager
  - Created by you using the Add Group function. (Please see Section 3.1.3 – Tree View and Groups for more information)
- Device ID
  - Assigned by you on the Datamax printer and used when you added the printer to DMXNet Manager
  - Should be a unique number among the printers in this group of printers (see Section 2.3.2 – MCL Connection, Group ID)
- Printer name
  - Assigned by you when adding a printer to DMXNet Manager
- IP address
  - Assigned by you on the Datamax printer and used when you added the printer to DMXNet Manager
- Printing status
  - Reported by DMXNet Manager
  - The status shown here is interpreted in the same way as that described in Section 3.1.1 – Icons View, Status Indicators.
- Status messages
  - Reported by DMXNet Manager
  - See Appendix C for the list of possible printer status messages
- Polling priority
  - Assigned by you when adding a printer to DMXNet Manager
- Printer model
  - Reported by DMXNet Manager.
- Part number
  - Please reference your Datamax documentation
- Product level
  - Please reference your Datamax documentation
- Firmware version
  - Reported by DMXNet Manager.
  - This is the version of your Datamax firmware
- Firmware date
  - Reported by DMXNet Manager.
  - This is the date of creation of your Datamax firmware
- MCL version
  - Reported by DMXNet Manager
  - This is the version of the MCL-Client on your Datamax printer
- MCL date
  - Reported by DMXNet Manager
  - This is creation date of the MCL-Client on the Datamax printer
- Activated
  - Reported by DMXNet Manager
  - This indicates whether or not the MCL-Client has been activated on your Datamax printer allowing you to run applications created using MCL-Designer or 123 Print.
  - Whether or not the printer has been activated, MCL-Designer and 123 Print projects will run on the printer. However, if the printer is not activated, barcodes are not printed and a “not registered” message is printed on the labels you print. Please note that other anomalies may also be printed on the label.
- Printer key
  - Please reference your Datamax documentation

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

- Total counter
  - This is the same as the Absolute Counter on the printer
- User counter
  - This is the same as the Resettable Counter on you printer

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.1.3. Tree View and Groups

General introduction

This section discusses the Tree View found on the left side of both the Icons View and the Details View. The tree view shows the topology of your printer Configuration.

This section also discusses Groups used in the printer topology.

The topology hierarchy is by Configuration, Group, and Printer.

Design a printer topology that groups printers logically to simplify the management of your network of printers.

Tree View

Several options are available from the Tree View to help you define your printer network topology.

To access these options,

1 Right click on the branch of the tree where you want to add or change a branch

Add Group

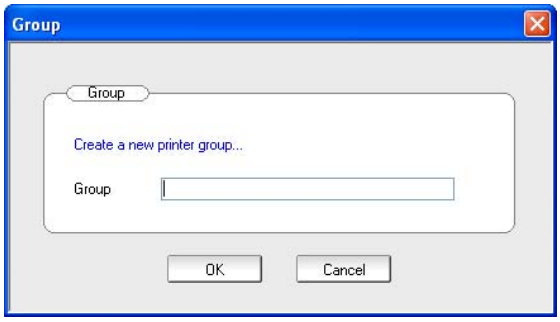
To add a new Group,

1 Right click on the top level, the Configuration level, of the tree
2 Select Add Group

Alternatively,

3 Right click on the second level, the Group level, of the tree
4 Select Add Group

The Group dialogue box is displayed as shown here



5 Enter the desired name for the new group
6 Click OK

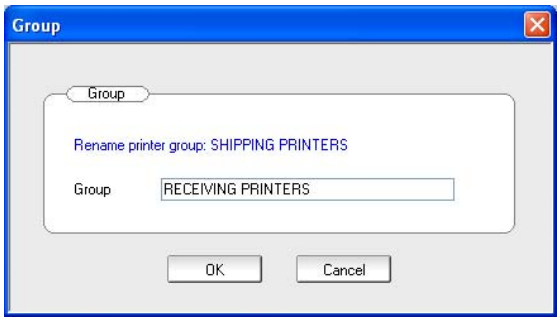
The new group is inserted above any other existing groups.

Rename Group

To rename a group, in the tree view:

1 Right click on the group branch of the group to be renamed

The Group Rename dialogue box is displayed



www.mcl-collection.com

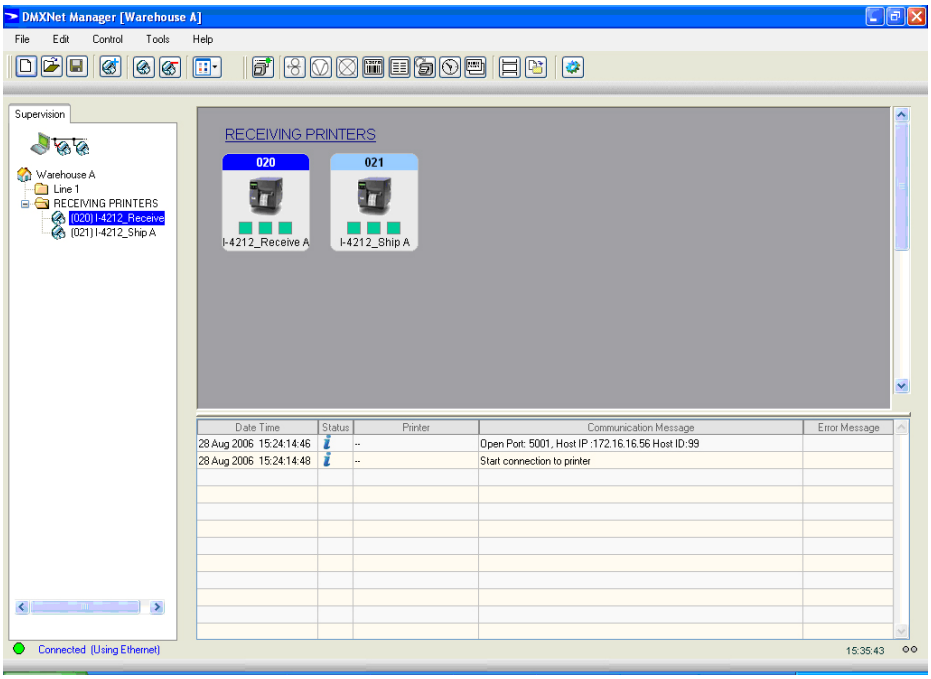
Copyright © 2010 • MCL Technologies • All Rigths Reserved

2 Enter the new name you want to use for this group
3 Click OK

If the name you enter already exists, you are prompted to merge the printers from the two groups into one group as shown here

4 Click Yes to merge printers into one group, or
5 Click No to cancel and enter a different group name

If you click yes, the printers are merged into the designated group as shown below.



Note: This merge is permanent. It cannot be undone even if you quit the Configuration without saving it.

Delete Group

To delete a group, in the tree view:
1 Right click on the group branch of the group to be deleted

You are prompted to confirm that you want to delete the group

2 Click Yes

Note: Delete Group deletes the group and all of the printers in that group from the Configuration. This deletion is permanent, and cannot be undone even if you quit the Configuration without saving it.

www.mcl-collection.com

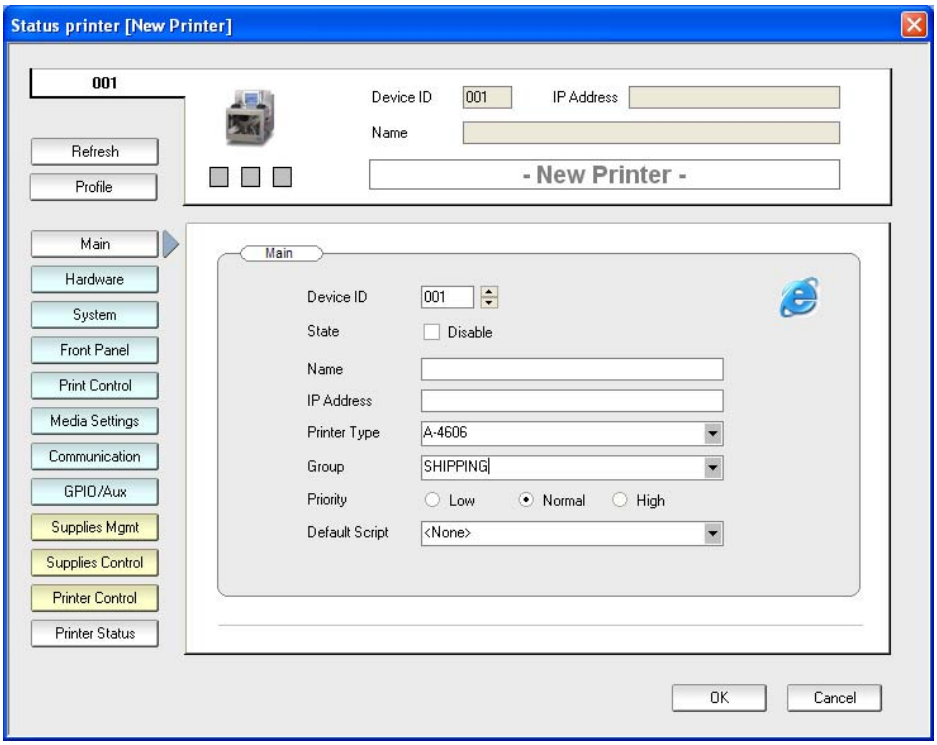
Copyright © 2010 • MCL Technologies • All Rigths Reserved

Add Printer

From the tree view, you can add a printer to the Configuration.

1 Right click on any branch of the tree where you want to add the printer

The Main Settings screen is displayed to setup the new printer (Please see Section 2.5 – Add Printer for more information)



The Main Settings includes a Group setting.

By default, the Main Settings proposes a Group for the new printer. It proposes the Group associated with the branch of the tree that you right clicked to add the printer.

If the suggested Group is not the Group to which you want to add the printer,

2 Edit this entry with the Group name you want for this printer

If you enter a name here for a group that does not exist yet, this new Group is created and added to the tree.

If you right click on the top level (the Configuration level) of the tree when you add a printer, Main Settings proposes the first group found in the tree.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Tree View - Printer level

If you right click on a printer in the tree view, several options are available:

- Add New Printer
- Delete Printer
- Duplicate Printer
- Properties

Clicking Properties has the same result as double clicking on the printer—the Status Screen is displayed giving access to the printer settings.

If you left click on a printer or <CTRL> left click on several printers to select one or more printers in the tree view, you can move the selected printers into a different Group by “dragging and dropping” them.

If you right click on a **connected** printer in the tree view, additional options are available:

- Control
- Supplies Control
- Apply profile
- Execute Script
- Execute Default Script

These options are discussed elsewhere in the document.

To access these options from the tree view, first connect to the printer (Please see Section 2.6 – Connect / Disconnect Printer)

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.1.4. Communication Log Files

Communications log files

In addition to being displayed for immediate viewing in both the Icons View and the Details View, the communications log messages are saved in log files.

DMXNet Manager maintains, by default, ten log files of 50 kb each. When the first log file is full, it creates a second, and then a third. It continues like this until it has created ten log files. When the tenth log file is full, DMXNet Manager erases the first log file and starts the cycle again.

If you used the default paths when installing DMXNet Manager, the communications log files are saved in:

C:\DMXNetMan\Bin\Log

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.2. Edit Printer – Control and Management

General introduction

In addition to the Edit Printer features discussed in Chapter 2 to setup your printer, DMXNet Manager also includes Edit Printer features to help you manage and control your printers.

These features are reached from the Status Screen. They correspond to the light yellow buttons found on the left-hand side of the screen.

This section discusses these printer management and control features.

Using these views you are working with just one printer at a time in **Control Mode.**

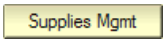
www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

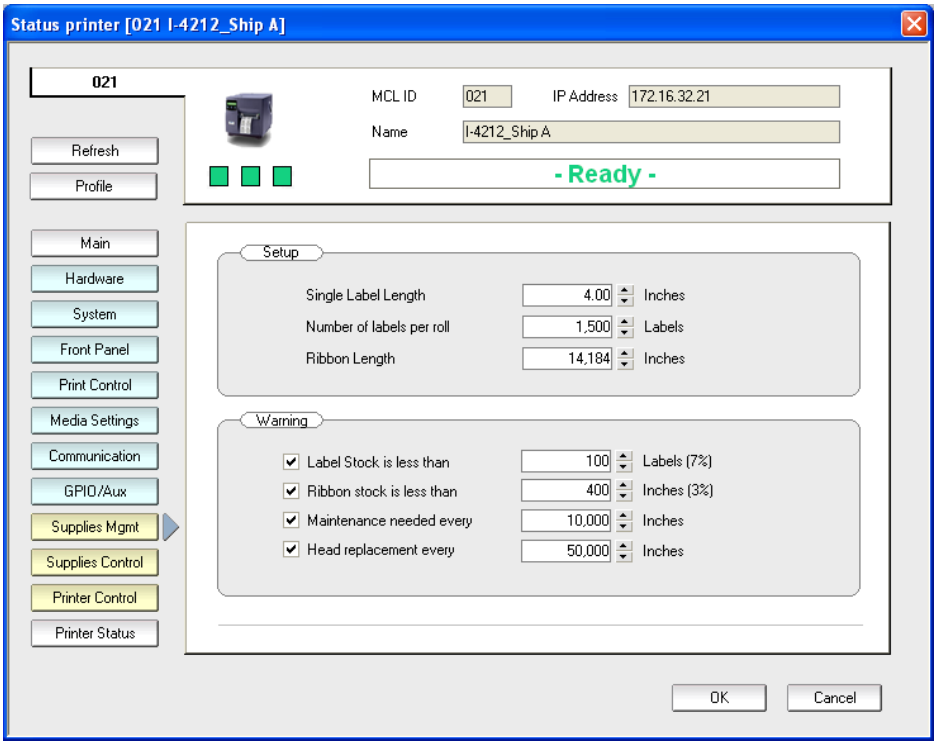
3.2.1. Supplies Management Settings

Supplies management settings

DMXNet Manager helps you manage your printer's supplies. To change the printer's supply management settings:

1 On the Status Screen, click on the **Supplies Mgmt** button 

The supplies management settings screen is displayed as shown here. Note the ▶ arrow beside the Supplies Mgmt button to show that this is the active display.



Provide DMXNet Manager with information about the supplies you are using for the given printer:

2 Enter the **length** of a single label
3 Enter the **number of labels** per roll
4 Enter the **ribbon length**

DMXNet Manager uses these values to calculate when the printer's supplies are getting low. DMXNet Manager then warns you when the supplies are low so you can take proactive maintenance action to replenish the supplies before they run out and impact your operations.

Next, setup DMXNet Manager to issue the low supply warnings you want to receive:

5 **Check** the checkbox beside any / all of the **supplies** for which you want to receive low supply warnings
6 **Uncheck** the checkbox beside any of the **supplies** for which you do **not** want to receive low supply warnings
7 Enter the **threshold values** you want DMXNet Manager to use to issue the warnings

The warnings issued by DMXNet Manager are displayed as status indicators in Supervision Mode in both the Icons View and the Details View. You can also see them in Control Mode on any of the settings or control screens reached from the Status Screen.

Please see Section 3.1.1 Icons View, Status indicators

Please see Section 3.2.4 – Printer Status

www.mcl-collection.com

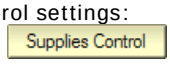
Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.2.2. Supplies Control Settings

Supplies Control settings

Whenever you change any of the printer's supplies, notify DMXNet Manager of the replenishment event so it can begin anew the low supply warning calculations from the moment of replenishment.

To change the printer supplies control settings:

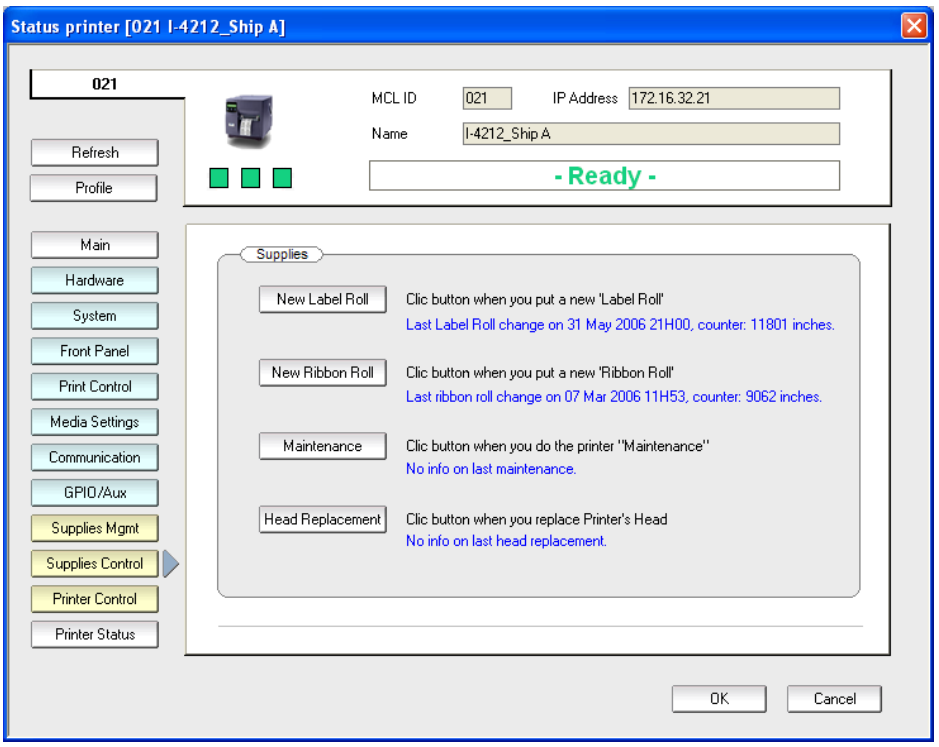
1 Click on the **Supplies Control** 

button

Alternatively, on the **menu bar**:

1 Select **Control**
2 Select **Supplies Control**

The Supplies update screen is displayed as shown here. Note the ▶ arrow beside the Supplies Control button to show that this is the active display.

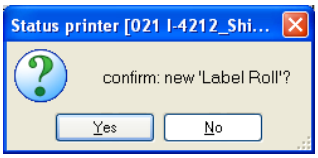


3 Click the appropriate button corresponding to the printer maintenance action you are taking

www.mcl-collection.com

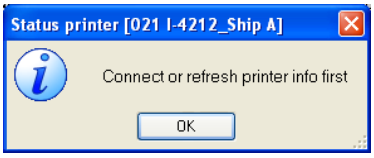
Copyright © 2010 • MCL Technologies • All Rigths Reserved

You are prompted to confirm your request as shown here



4 Click **Yes** to confirm the event
5 Click **No** to cancel the event

If you are not connected to the printer when you attempt this maintenance, you will be prompted to make a connection first as shown here



6 Connect the printer as described in Section 2.6 – Connect / Disconnect Printer

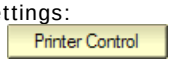
www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

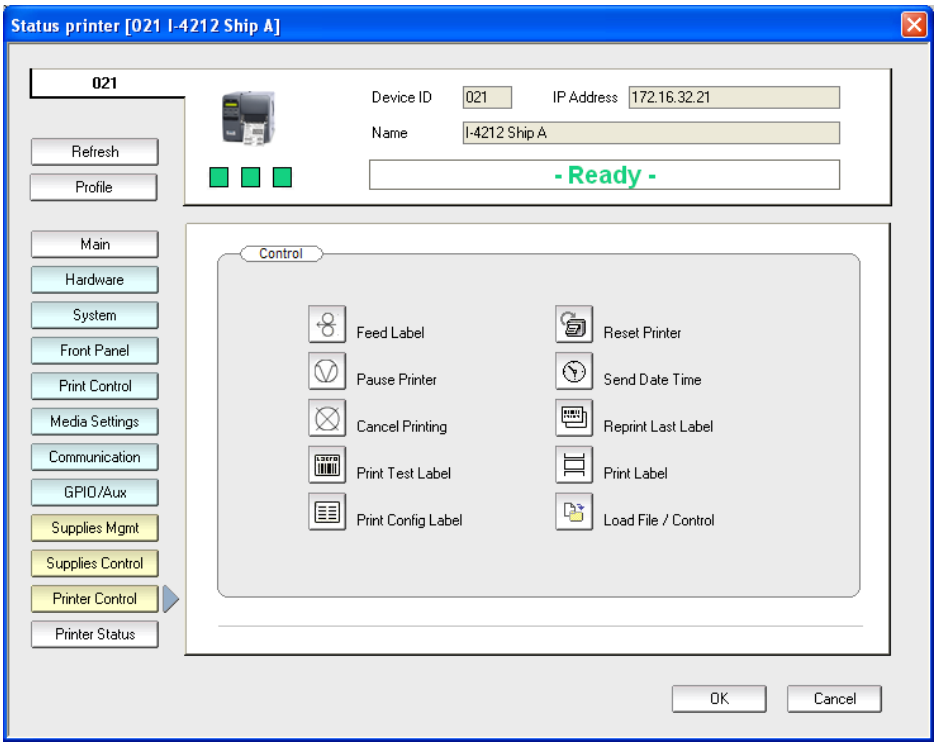
3.2.3. Printer Control Settings

Printer Control settings

To change the printer's control settings:

1 Click on the **Printer Control**  button found on the left of the Status Screen

The Printer Control screen is displayed as shown here. Note the ▶ arrow beside the Printer Control button to show that this is the active display.



See Section 3.3 – Printer Control for a description of these buttons.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

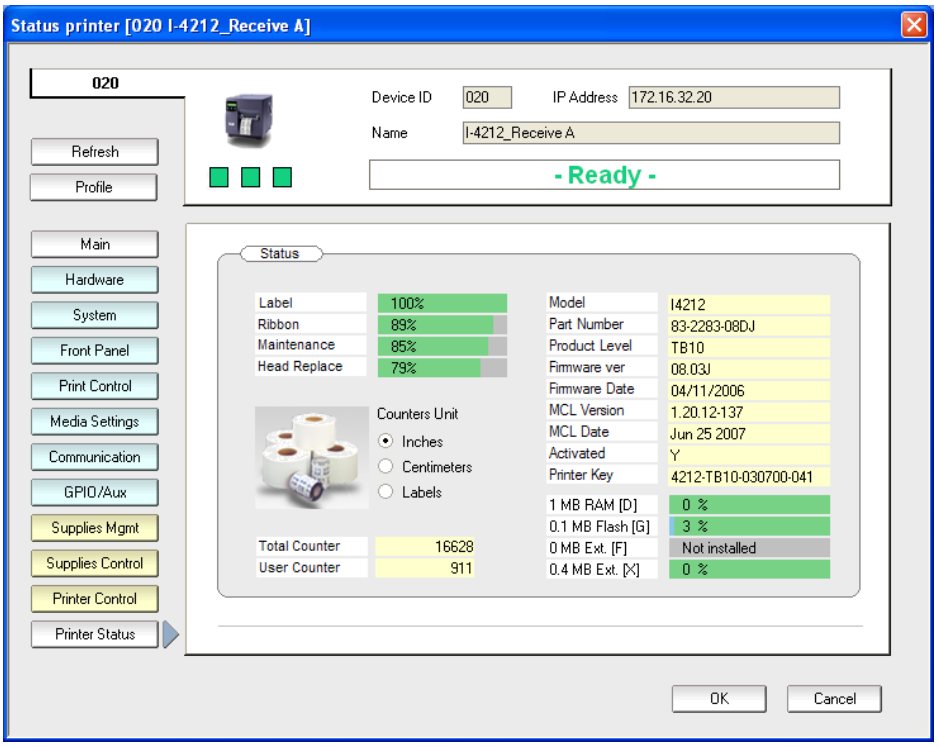
3.2.4. Printer Status

Printer Status

To see the printer's status:

1 Click on the **Printer Status** button found on the left of the Status Screen

The printer status screen is displayed as shown here. Note the ▶ arrow beside the Printer Status button to show that this is the active display.



The supplies' status percentage presented here for Label, Ribbon, Maintenance, and Head Replacement is the same as that described in Section 3.1 – Configuration Views. These percentages reflect the supply or component life still remaining for the given supply/component.

2 Click the appropriate **radio button** to indicate which unit of measure—Inches, Centimeters, or Labels—you want DMXNet Manager to use when displaying the Total Counter and User Counter status.

The Total Counter and User Counter are the same as Absolute Counter and Resettable Counter on your Datamax printer respectively. Here they are displayed in the unit of measure you select.

The Model, Part Number, Product Level, Firmware ver, Firmware Date, MCL Version, MCL Date, Activated, and Printer Key information provided here is the same as that provided in the details view. Please see Section 3.1.2 – Details View, Column Descriptions for more information.

This Printer Status screen also displays printer **memory usage** as a percentage of memory used. In this example, 0% RAM and 3% Flash memory are in use.

Note: The memory module information available, and therefore shown, varies from printer model to printer model. No status is provided for H-Class printers since the memory on these printers is a virtual allocation.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Status indicators

The printer image at the top of the screen displays three status indicators. They have the following meaning:

- The left most indicator is the **Connection Status**
  - Blue = DMXNet Manager is doing a printer check
  - Green = DMXNet Manager is connected
  - Red = DMXNet Manager failed to connect
  - Gray = DMXNet Manager is not connected
- The middle indicator is the **Printer Status**
  - Green = printer is ready
  - Orange = printer is paused / communications are busy
  - Red = printer has a problem
  - Gray = no information is available
- The right most indicator is the **Media Status**
  - Green = printer is ready
  - Orange = warning media running low
  - Red = operator action is needed for printer maintenance or for label, ribbon, or printer head replacement.
  - Gray = no information is available, or no warning levels are set in Supplies Management

Notice that the Printer Status has an orange indicator to indicate that the printer is busy and cannot report its status.

Default polling timeouts and retries are also different in Control Mode than in Supervision Mode. Since Control Mode provides an environment to work in detail with just one printer, the timeouts are longer and more retries are made before conclusions are drawn and the status is reported.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.3. Printer Control

General introduction

DMXNet Manager allows you to easily control a printer remotely / centrally.

This section describes these controls and how they are initiated.

Printer controls

The following printer controls are available in DMXNet Manager:

- Feed Label
- Pause Printer
- Cancel Printing
- Insert Test Label
- Print Config Label
- Reset Printer
- Send Date Time
- Reprint Last Label
- Print Label
- Load File / Control

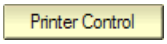
These control options and control icons are not active if a printer(s) is not connected or selected. The controls are grayed out. Connect to and select a printer(s) to enable these controls.

Many of these controls are also available via the physical printer's front panel or printer menu. Consequently, you may also refer to your Datamax user manual for more information about these printer controls.

Control of one printer

To control an individual printer:

1 **Double click** on the given printer in the Printer Window or tree view

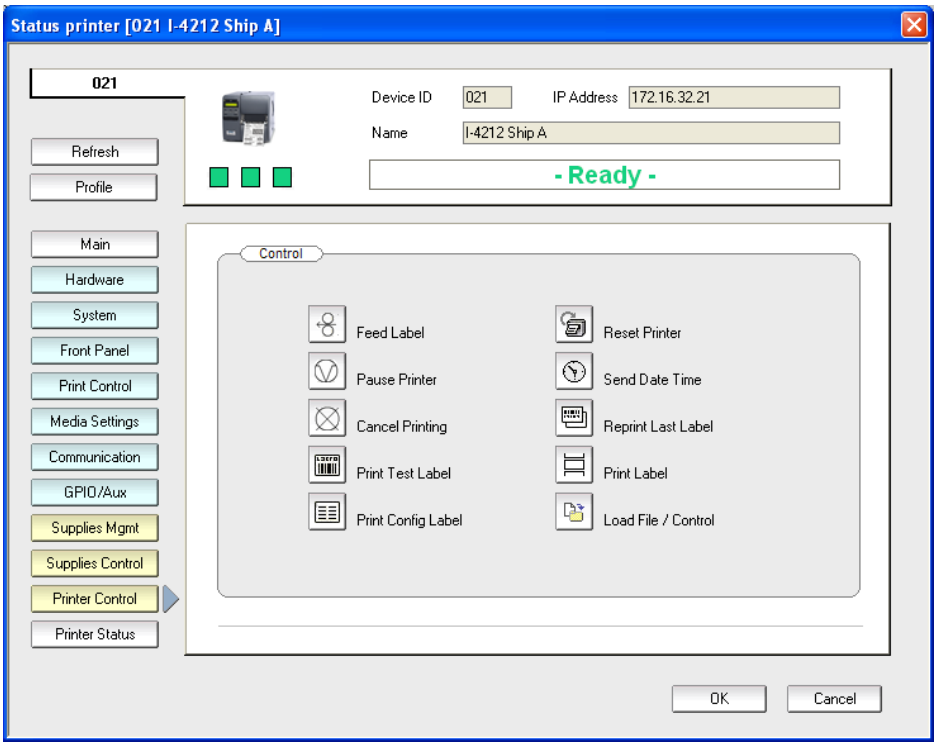
2 Click the yellow **Printer Control** 

button found on the left of the Status Screen

The Printer Control screen is displayed as shown below. Note the ▶ arrow beside the Printer Control button to show that this is the active display.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved



3 Click the **control** you want to execute

Control of several printers

The above procedure allows you to only affect one printer at a time.

However, DMXNet Manager also allows you to apply a control to several printers at the same time. In Icons View or Details View,

1 **Select several** printers using standard Windows mouse operation:
   - <CTRL> + Click on each printer you want to select
2 On the **tool bar**, click the **control** you want, or
3 On the **menu bar**, select **Control** and then select the control you want

---

Control execution

If DMXNet Manager does not require any additional information to perform the operation, it initiates the control action immediately when you select the control you want to execute.

You are notified if the control operation is successful, as shown here

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

If the operation is not successful, you are notified of the failure, as shown below. If this occurs, take corrective action to solve the connection problem and try again. Please see Section 2.6 – Connect / Disconnect Printer for more information.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Following is a more detailed description about each control and how to execute it. For more information, please refer to your Datamax user manual.

Feed Label

1 Click to perform a form feed and advance the label roll to the top of the next label

Pause Printer

This is a toggle function that operates in the same way as the PAUSE button on your printer's front panel.

1 Click once to pause the printer

2 Click a second time to resume printer operation from the point of interruption

Cancel Printing

This control operates in the same way as the STOP/CANCEL button on your printer.

1 Click to abort the current print job and clear the current label format from the printer buffer

2 Click to resume printer operation

Insert Test Label

1 Click to print a Datamax factory defined test label

Print Config Label

1 Click to print a Datamax factory defined configuration label

Reset Printer

1 Click to reset the selected printer

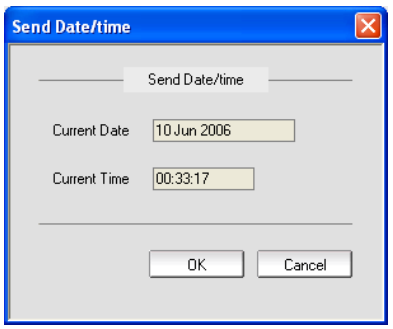
Send Date Time

DMXNet Manager automatically synchronizes the time and date of connected printers once every hour, by default

This Send Date Time control allows you to synchronize the time and date of your printer(s) at any time, manually.

1 Click to update the printer's time and date

DMXNet Manager displays your server's time and date in a dialogue box as shown here



2 Click **OK** to send the server's time and date to the printer

3 Click **OK**

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

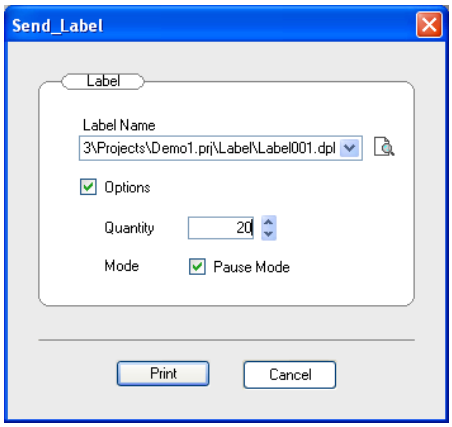
Reprint Last Label

1 Click to reprint the last label

Print Label

1 Click to print a label that you select

A Send Label dialogue box is displayed as show here



2 Enter the **path** and **file name** or click the browse icon to search for the label you want to print. This example selects a BarTender label to print.
Note that the label file must be of the format *.dpl.

3 The default label print quantity is 1. To print a different quantity than the default or to select Pause Mode, check the checkbox beside **Options** to enable these additional options.

4 Enter the **quantity** or use the up and down arrow buttons to increment or decrement the quantity of this label that you want to print. Minimum quantity is 1. Maximum quantity is 99,999.

5 Check the checkbox beside **Pause Mode** if the Quantity is greater than 1 and you want to pause the printer between each label print.

Pause mode gives an operator time to peel and apply a label before the subsequent label is printed. The operator presses the PAUSE button on the printer's front panel each time he / she is ready for the next label.

6 Click **Print**

Load File / Control

Load File / Control is the Printer Control that allows you to download files such as firmware, labels, and MCL projects to your Datamax printer.

Please see Section 3.4 – Load File / Control for more information.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.4. Load File / Control

General introduction

Load File / Control is the Printer Control (see Section 3.3 – Printer Control) that allows you to download files such as firmware, labels, DPL control commands, and MCL projects to your Datamax printer.

This section describes the kinds of files that may be loaded into the Datamax printer(s). It also discusses the file load options.

Load File / Control

To load a file into a printer or printers

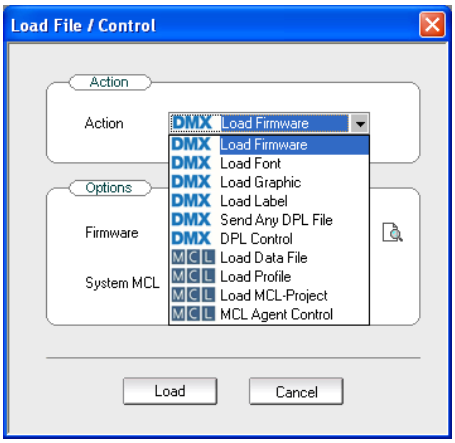
1 Select the printer(s) to be loaded

2 Click the **Load File / Control** printer control icon to load a file into the selected printer(s)

Remember that if the printer controls are reached via the:

- Status Screen, then Load File / Control applies only to the single printer selected
- Tool bar, then Load File / Control applies to all the printers selected

As shown below, when you click the Load File / Control icon, a dialogue box is displayed with the possible Load actions. Each Load action also includes Load options unique to the given Load type.



Note: The Actions available at any given time depend upon the physical connection to the printer and the printer model involved.

Note: In the following sections, you are frequently prompted to enter a Target Name. This is what the file you are downloading will be called when it is loaded on the printer.

In each case, the Target Name

- Is allowed to have a maximum of 16 characters
- Does not allow spaces or special characters

Note: In the following sections, you are frequently prompted to enter a LOCATION. For information about these locations, please see Appendix F – Datamax Drives and MCL Aliases.

Note: Different printer models have different memory module assignments and functions. If you are loading a file or applying a control to several printers at once, be sure that the given operation is suitable for all the selected printers.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

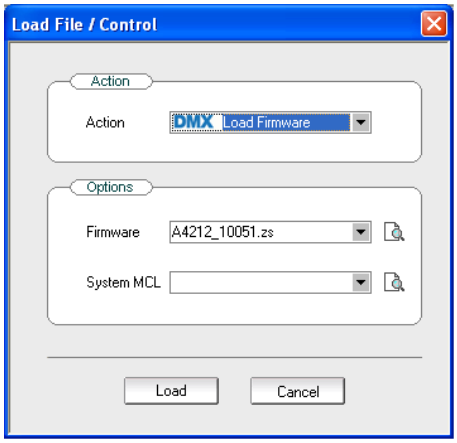
3.4.1. Load Firmware

Load firmware action

To load firmware into the printer

1 Select the **Load Firmware** action

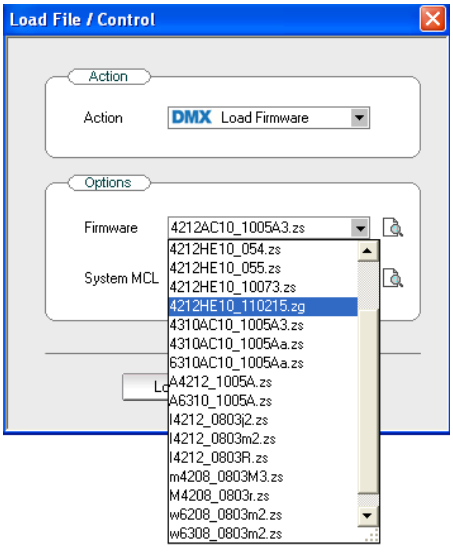
A dialogue box is displayed as shown below. This allows you to select the firmware and MCL System Menu you want to load into the printer.



Load firmware and MCL system menu options

2 Select the **firmware** you want to load into the selected printer(s), or

3 Click the browse icon to browse for the firmware you want to load



Note: As shown above, printer firmware are *.zs and *.zg files according to the compression method used by Datamax for the given version of firmware. It is extremely important to download firmware with an extension that is compatible with your printer's Boot Loader. Please reference your Datamax manual to determine the compatible firmware to select here.

www.mcl-collection.com

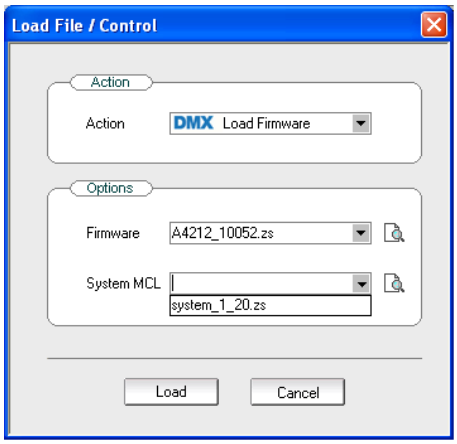
Copyright © 2010 • MCL Technologies • All Rigths Reserved

4 Next, select the **MCL System Menu** you want to load (if any) into the selected printer(s), or

Note: To assure compatibility when you are downloading firmware to a text display printer, make sure the version of the MCL System Menu you are loading is the same as the version of the firmware you are loading.

In the example below, both the firmware and the MCL System Menu are version 1.20.

5 Click the browse icon to browse for the MCL System Menu you want to load

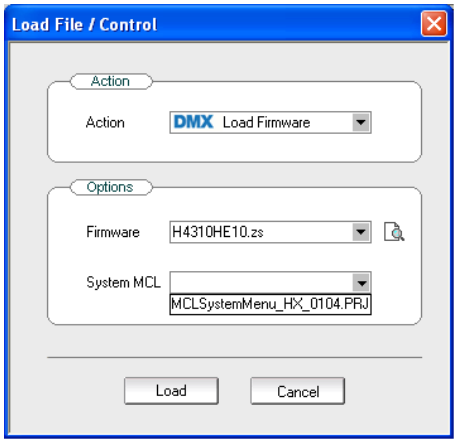


6 Click **Load**

Note: Be aware that there are differences between the MCL System Menu files for Datamax text display printers and Datamax graphical display printers.

The MCL System Menu for text display printers are *.zs files as shown above.

Graphical display printers (such as the H-Class) have MCL System Menus that are *.prj files as shown here.



Download Process

DMXNet Manager performs the following steps for you if you load the MCL System Menu into the printer when you are loading firmware:

- Loads the selected firmware
- Reboots the printer

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

- Waits for the printer to boot up and restore its settings (normally about 40 seconds)
- Loads the selected MCL System Menu

Note: It is advisable to shut down any applications, such as AppleTalk, before downloading new firmware. These applications can affect the printer reboot time.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

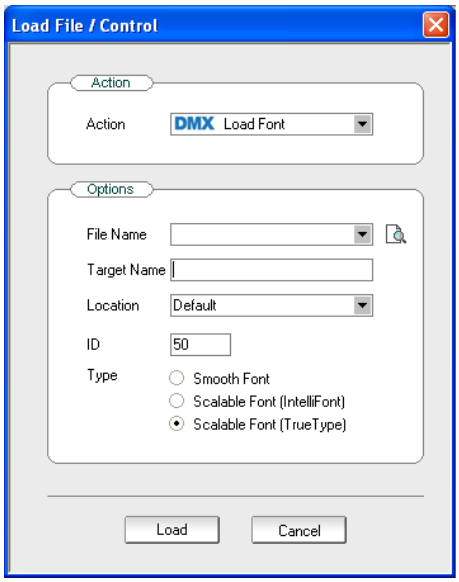
3.4.2. Load Font

Load font action

To load a font into the printer

1 Select Load Font

A dialogue box is displayed as shown below



Load font options

In the font options area:

2 Select the **file name** of the **font** you want to load into the selected printer(s), or

3 Click the browse icon to browse for the font you want to load

4 Enter the **Target Name**. This is the name the font file will have when loaded on the printer. You must enter a target file name. If no target name is entered, DMXNet Manager will not load the font.

5 Select the target **Location**. This is the Datamax printer drive where the font file will be saved on the printer. Please see your Datamax programmer's manual for information about printer drive selection.

6 Enter the **Font ID**. This is a user assigned ID for the given font. Once a Font ID has been assigned, subsequent references to this font use this ID, not the font name. Please reference your Datamax manual for more information.

7 Click the radio button beside the appropriate **font type**

8 Click **Load**

Note: Target Name and Location are not required it you are loading a Smooth font type.

Note: As examples, valid font file types for text display printers include:

- *.ttf
- *.sfp
- *.sfl
- *.cdi

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

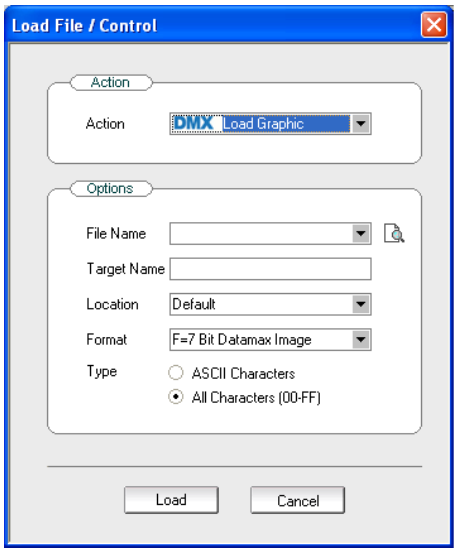
3.4.3. Load Graphic

Load graphic action

To load a graphic into the printer

1 Select **Load Graphic**

A dialogue box is displayed as shown below



Load graphic options

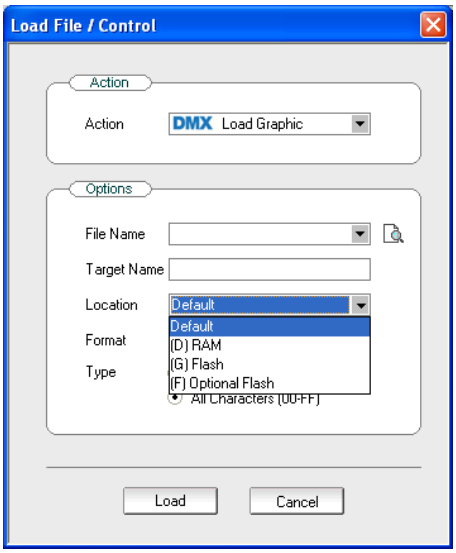
In the graphic options area:

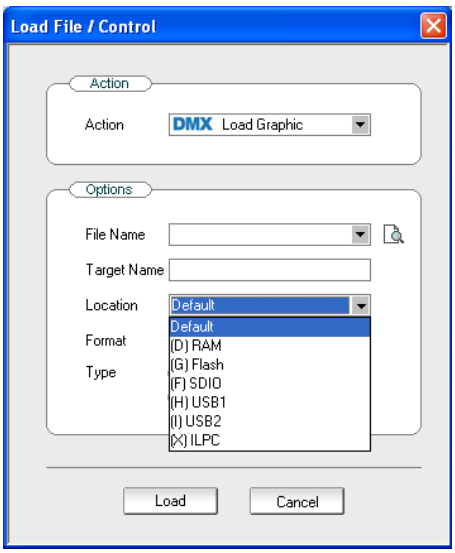
2 Select the **file name** of the **graphic** you want to load into the selected printer(s), or

3 Click the browse icon to browse for the graphic you want to load

4 Enter the **Target Name**. This is the name the graphic file will have when loaded on the printer. You must enter a target file name. If no target name is entered, DMXNet Manager will not load the graphic.

5 Select the target **Location**. This is the Datamax printer drive where the graphic file will be saved on the printer. Please see your Datamax programmer's manual for information about printer drive selection..Below are examples of I-Class and H-Class printers respectively.

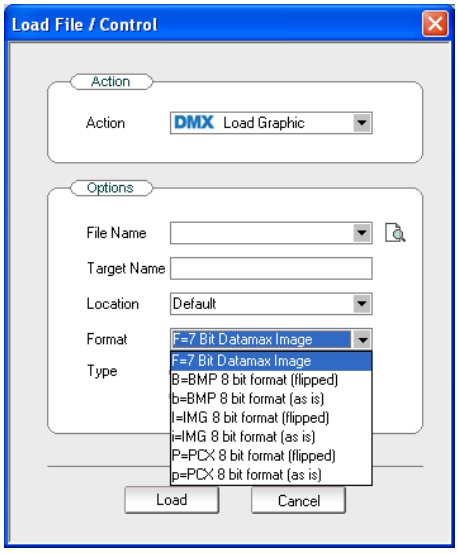




www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

6 Select the **format** of the graphic you want to load into the printer. Several formats (such as “flip”) are allowed. Please reference your Datamax documentation for information about these formats.



7 Select the appropriate **Type** (ASCII characters only or all characters)

8 Click **Load**

Note: Graphic images must be monochrome. Valid graphic file types include:

- *.bmp
- *.pcx
- *.img
- *.f7b Datamax graphic file

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

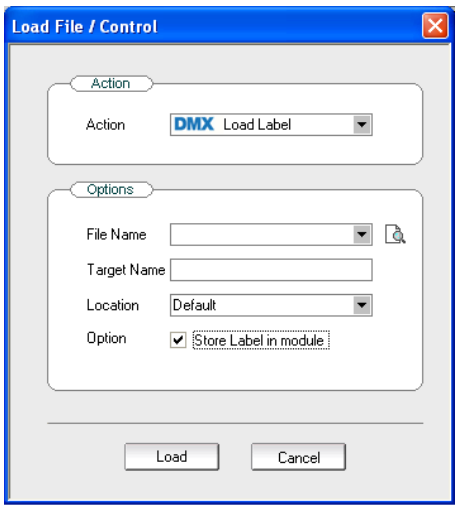
3.4.4. Load Label

Load label action

To load a label into the printer

1 Select **Load Label**

A dialogue box is displayed as shown below



Load label options

In the label options area:

2 Select the **file name** of the **label** you want to load into the selected printer(s), or

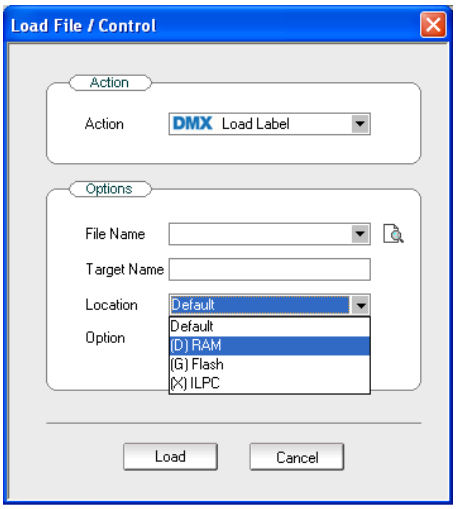
3 Click the browse icon to browse for the label you want to load

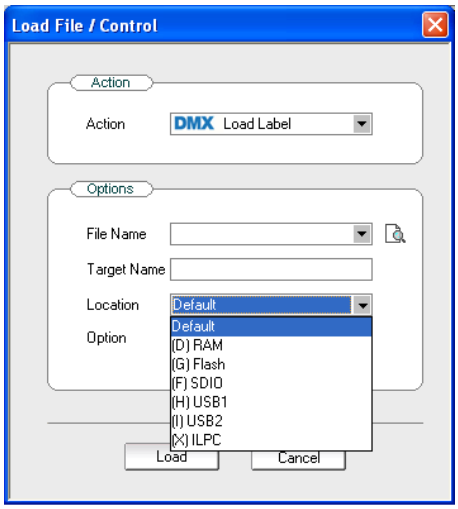
4 Enter the **Target Name**. This is the name the label file will have when loaded on the printer. You must enter a target file name. If no target name is entered, DMXNet Manager will not load the label.

5 Select the target **Location**. This is the Datamax printer drive where the label file will be saved on the printer. Please see your Datamax programmer's manual for information about printer drive selection. Below are examples of I-Class and H-Class printers respectively.

6 Check the checkbox beside **Store Label in module** if this is the desired option. If this option is not checked, the label is printed without being stored on the printer.

7 Click **Load**





www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

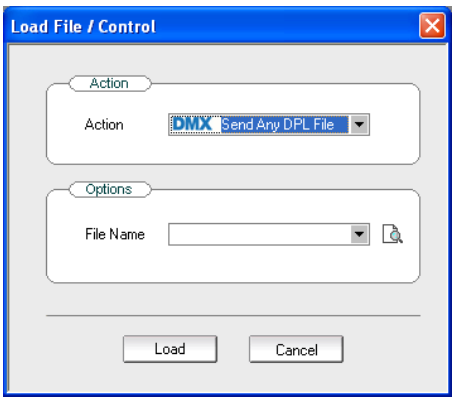
3.4.5. Send Any DPL File

Send any DPL file action

To send any DPL file, such as a label format or a file with DPL commands, to the printer

1 Select **Send Any DPL File**

A dialogue box is displayed as shown below



Send any DPL file options

In the send any DPL file options area:

2 Select the **file name** of the file you want to send to the selected printer(s)

3 Click **Load**

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.4.6. DPL Control

DPL Control action

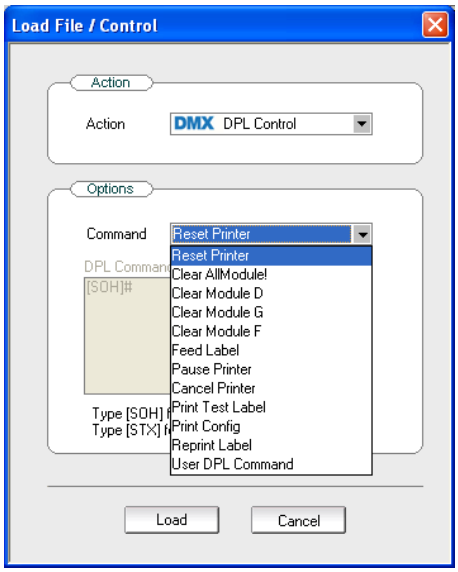
DMXNet Manager allows you to send a DPL command to the printer for immediate execution on the printer.

Note: If you want to send more than one DPL command at a time, create a file containing the desired DPL commands, and then send the file to the printer using the “Send Any DPL File” command. (See Section 3.4.5 – Send Any DPL File).

To send a DPL Control to the selected printer:

1 Select the action **DPL Control**

A dialogue box is displayed giving DPL Command options as shown here



DPL command options

DMXNet Manager offers a list of preset DPL Commands for you to choose from. These are the most commonly used DPL commands. Note: These preset actions are the same commands as provided by DMX Loader.

2 Select the predefined **DPL command** you want to load in the printer

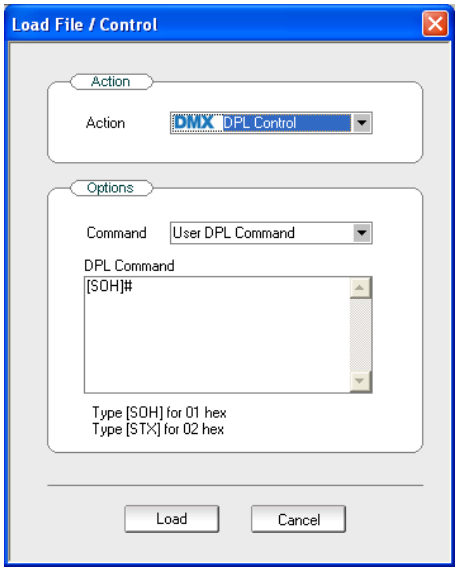
Alternatively, if you want to execute a DPL command that is not provided in the preset DPL command list:

3 Choose the **User DPL Command** option

A dialogue box is displayed as shown below. This allows you to write your own DPL command to be sent to the printer.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved



4 In the DPL Command box provided, enter the **DPL command** you want to execute
5 Click **Load**

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

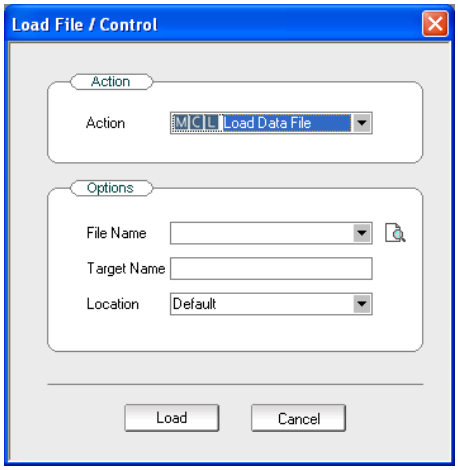
3.4.7. Load Data File

Load data file action

To load a data file into the printer

1 Select **Load Data File**

A dialogue box is displayed as shown below



Load data file options

In the data file options area:

2 Select the **file name** of the **data file** you want to load into the selected printer(s), or

3 Click the browse icon to browse for the data file you want to load

4 Enter the **Target Name**. This is the name the data file will have when loaded on the printer. You must enter a target file name. If no target name is entered, DMXNet Manager will not load the data file.

5 Select the target **Location**. This is the MCL Alias drive designation where the data file will be saved on the printer. Please see Appendix F – Datamax Drives and MCL Aliases for information about LOCATION selection.

6 Click **Load**

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.4.8. Load Profile

Load profile action

All the settings for a given printer can be saved in a profile as described in Section 2.10 – Profiles. Profiles let you recover a given printer's setup or load the same printer settings into other printers to set them up identically. Section 2.10 describes how to load a profile into a printer. However, the profile load in Section 2.10 applies only to a single selected printer.

Loading a profile through Printer Control allows you to load the profile into one or more printers.

Profiles are of the type *.dmp. If you used the default paths when installing DMXNet Manager, your profiles are saved in:

C:\DMXNetMan\Profile

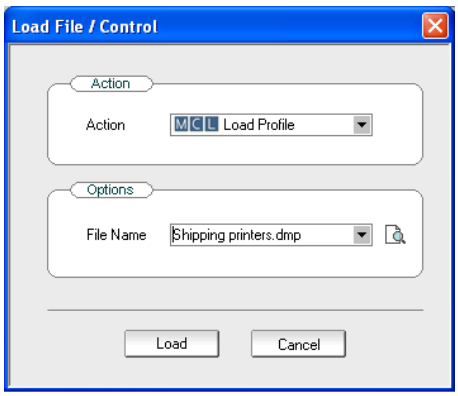
To load a profile, in the Icons View or Details View,

1 **Select several** printers using standard Windows mouse operation:
   - <CTRL> + Click on each printer you want to select

2 On the **tool bar**, click the Load File / Control icon

3 Select **Load Profile**

A Load Profile dialogue box appears as shown here



Load profile options

In the profile options area:

4 Select the **file name** of the profile you want to load into the selected printer(s), or

5 Click the browse icon to browse for the profile you want to load

6 Click **Load**

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

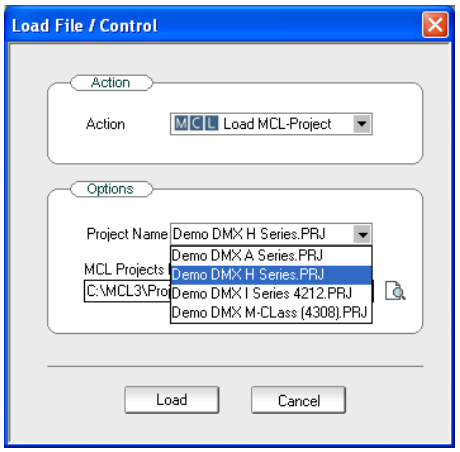
3.4.9. Load MCL-Project

Load MCL project action

123 Print and MCL-Designer for Datamax Printers allow you to create applications that run on Datamax printers. To load a project into the printer:

1 Select **Load MCL-Project**

A Load MCL-Project dialogue box appears as shown here



Load MCL project options

In the project options area:

2 Select the **project name** of the project you want to load into the selected printer(s), or

3 Click the browse icon in the **MCL Projects Path** to change the source directory of the project you want to load

4 Click **Load**

www.mcl-collection.com

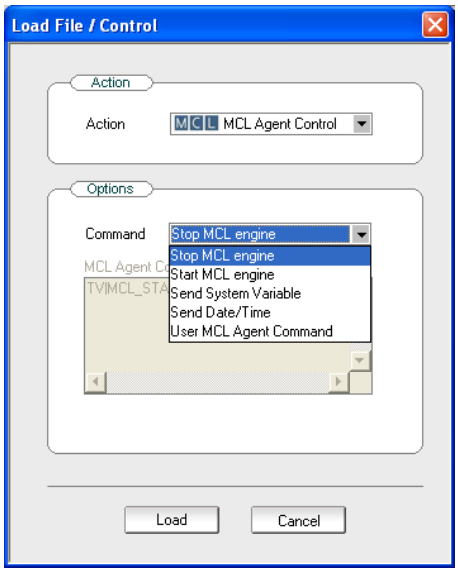
Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.4.10. MCL Agent Control

MCL Agent Control

The MCL-Client running on the Datamax printer includes a component called MCL Agent. This is a program that runs in the background for remote printer management using DMXNet Manager.

MCL Agent can be thought of as the printer-side component of DMXNet Manager.



Just as you send DPL commands (Section 3.4.9 – Load DPL Control) to Datamax printers for the Datamax engine to execute, this dialogue box lets you send MCL commands to the printer for the MCL Agent to execute.

DMXNet Manager offers a list of preset MCL Commands for you to choose from. These are the most commonly used MCL commands used in scripts. However, they are also available here for direct MCL control.

1 Select the predefined **MCL Agent command** you want to send to the printer.

When would you use these commands?

“Stop MCL engine” is useful if you want to stop the MCL engine before you download a new project or new firmware to the printer. You may also want to stop the MCL engine if, for example, your MCL application is running in an infinite loop on the printer.

You would use “Start MCL engine” after having stopped the engine to, for example, download a new project.

If the action you want to perform is not provided as a preset command, you may want to execute your own MCL Agent command.

2 Choose the **User MCL Agent Command** option

A dialogue box is displayed in which you can write your own MCL Agent command to be sent to the printer.

Note: This feature is generally expected to be used by advanced users only.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.5. Scripts

General introduction

Section 3.4 – Load File / Control describes the various kinds of files that may be loaded into a Datamax printer. The File Load allows you to load just one file at a time into the selected printer(s).

By contrast, scripting allows you to identify several files to be automatically loaded into selected printer(s).

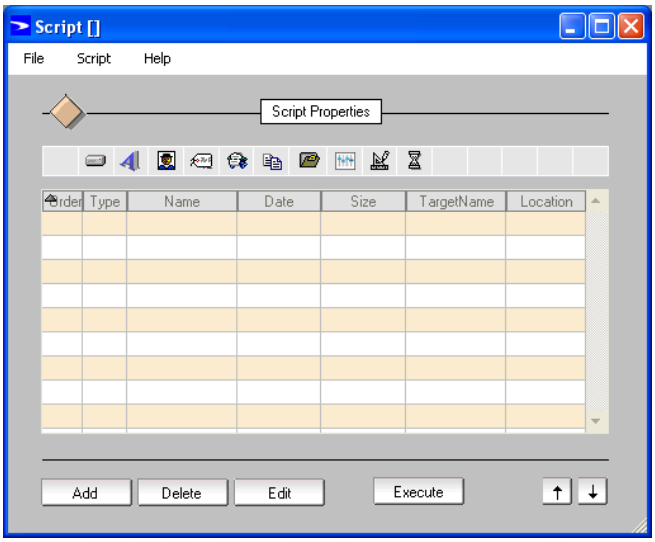
This section discusses how to create and use scripts to manage and control your Datamax printers.

Create script

To create a script, click on the Script icon on the DMXNet Manager **tool bar** or on the **menu bar**:

1 Click **Tools**
2 Click **Script**

The Script utility is displayed as shown here



On the Script menu bar,

3 Click **File**
4 Click **New**

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.5.1. Script Actions

Script actions

Now that you have created a new, blank script, start adding the actions you want this script to execute. On the Script menu bar,

1 Click **Script**
2 Click **Add**
3 Choose the **action** you want to perform first

A Script Detail dialogue box is displayed.

With the exception of a new action to Pause the printer, the choice of actions available for scripting are the same as those described in Section 3.4 – Load File / Control.

The possible script actions are also available as icons on the Script tool bar as follows:

- Add firmware
- Add font
- Add graphic
- Add label
- Add data file
- Add any DPL file
- Add MCL-Project
- Add profile
- Add Other Controls
  - This icon takes you to a dialogue box that includes all possible actions, including DPL Control and MCL Agent Control.
- Add Pause

4 Click any of these action **icons** to display the related Script Detail dialogue box
5 Edit the **Script Detail** dialogue with settings for this action as described in Section 3.4 – Load File / Control
6 Click **OK**

The **Script Detail** action dialogue boxes are the same as the **Load File / Control** action dialogue boxes with one main difference. When you have completed editing the Load File / Control dialogue box as described in Section 3.4, you click Load to perform the action immediately on the selected printer(s).

In Scripting, when you have completed editing the Script Detail dialogue box, you click OK to add the action to the Script. You continue adding all the actions you want to the script. You save the script to be executed at a later time.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

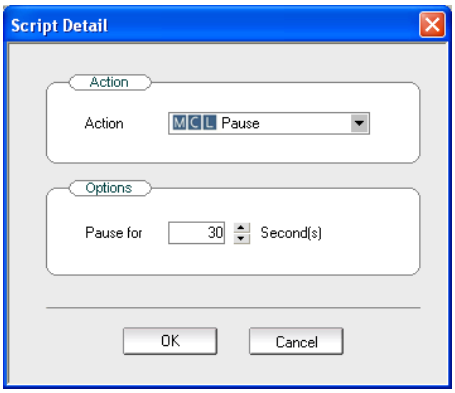
Pause

The Pause action is a Scripting action that is not available as a Load File / Control action in Section 3.4. Use the Pause as necessary between file loads in your script. For example, if you load a large file into the printer, you might want to delay a few seconds to give the printer time to save the file to memory before proceeding to the next load action in the script.

To insert a pause in your Script, on the **Script tool bar** click the icon, or on the **Script menu bar**:

1 Click **Script**
2 Click **Add**
3 Select the **Pause** action

A Pause action dialogue box is displayed as shown here



Pause options

4 Edit the **Pause for** data entry field with the desired period of delay or use the up and down arrows beside the data entry field to increment or decrement the value respectively. The period of delay is measured in seconds.

5 Click **OK**

www.mcl-collection.com

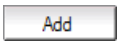
Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.5.2. Script Building

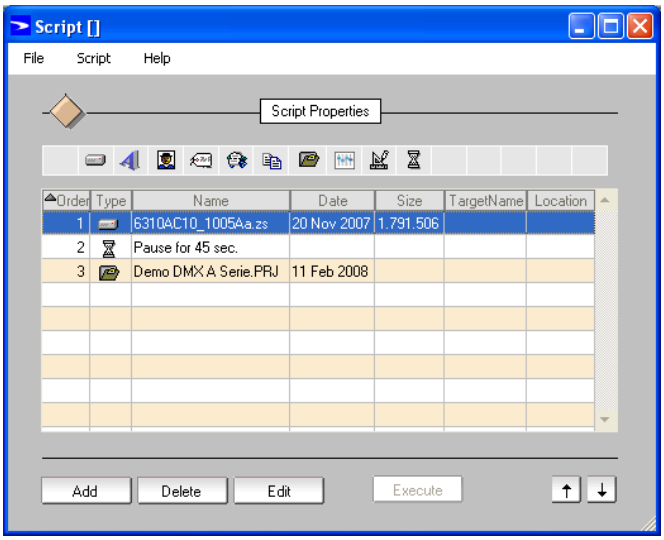
Script add action

To build your script, continuing adding actions as required.

On the Script menu bar,
1 Click **Script**
2 Click **Add**
3 Choose the **action** you want to perform first

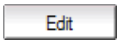
Alternatively, click the Add  button found at the bottom of the Script utility screen.

Here is an example of a simple script that loads new firmware, a new MCL System Menu, delays for 45 seconds and then loads an MCL-Project. The MCL System Menu does not show in the script; it is included in the Load Firmware action options.



Script edit action

The script you create may be modified at any time.
1 Select the **Script action** you want to edit
2 **Double click** on the Script action, or
3 On the **menu bar**, click **Script**, then click **Edit**
4 Edit the **Script Detail** dialogue box that is displayed—change the action or the action options
5 Click **Ok**

Alternatively, click the Edit  button found at the bottom of the Script utility screen.

Script action order

You may re-order the actions in your script at any time.

To move an action up or down:
1 Select the **action** to be moved
2 Click the buttons found on the bottom of the Script utility screen to move an action up or down the script respectively

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Script delete action

In addition to editing actions in the script, you may also delete actions you have previously inserted in the script.

1 Select the **action** you want to delete

On the Script menu bar:

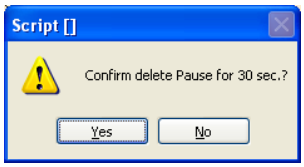
2 Click **Script**

3 Click **Delete**

Alternatively, click the Delete button found at the bottom of the Script utility screen.

As an example, if we delete the Pause we inserted in our new script, a confirmation dialogue box is displayed as shown below.

4 Click **Yes** to delete the selected action from the script



www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

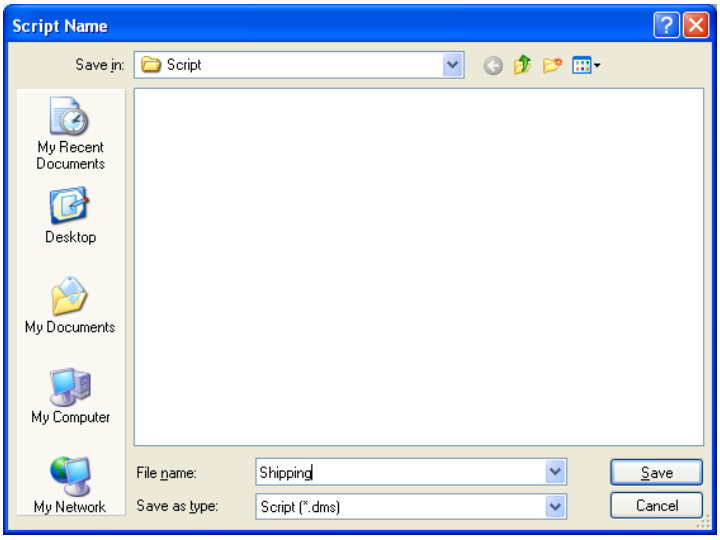
3.5.3. Script Save

Script save

Save the script you have created. On the **Script menu bar**,

1 Click **File**
2 Click **Save**, or
3 Click **Save as**...

A dialogue box is displayed as shown here



4 Enter a **File name** for your script
5 Click **Save**

Scripts are of the type *.dms. If you used the default paths when installing DMXNet Manager, your scripts are saved in:

C:\DMXNetMan\Script

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

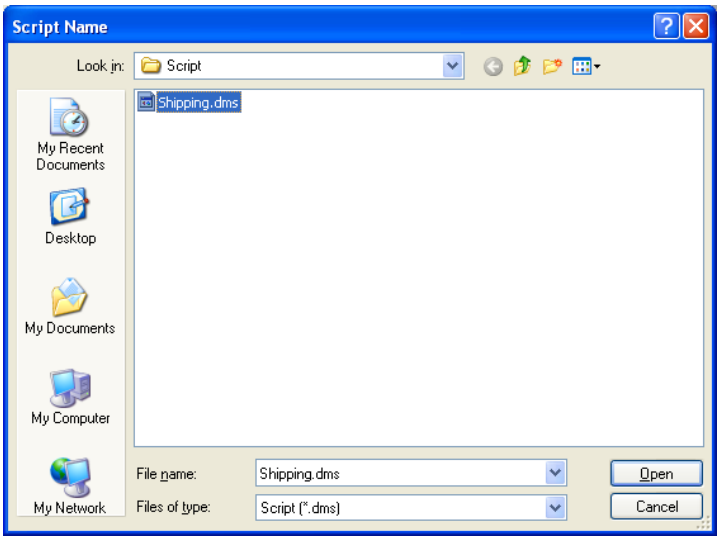
3.5.4. Script Open

Script open

Once saved, the Script you created may be opened and modified again at any time. On the **Script menu bar**:

1 Click **File**
2 Click **Open**

A dialogue box is displayed as shown here



3 Select the **script** you want to open
4 Click **Open**

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

3.5.5. Script Execution

Script execution

Once a script is built and saved, it may be executed. Executing a script means that the script actions are sent to the selected printer(s).

To execute a script:

1 In the Printer Window or tree view**, select one or more** printers using standard Windows mouse operation:
- <CTRL> + Click on each printer you want to select

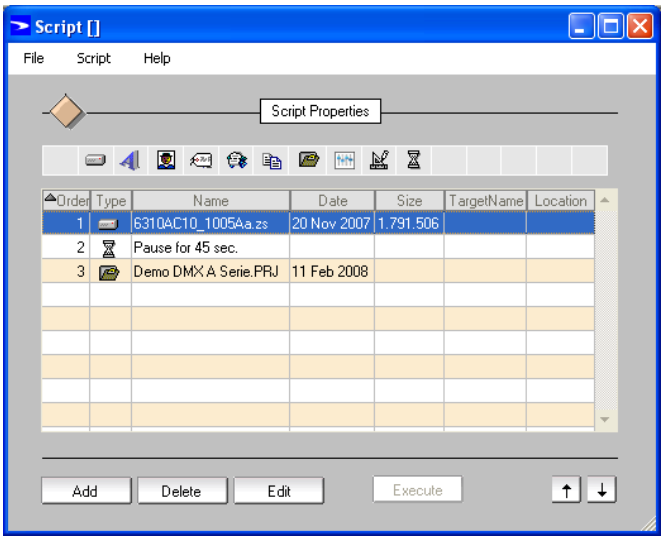
On the DMXNet Manager **tool bar**

2 Click the script icon

The Script utility screen is displayed with your last script automatically reopened.

Note: Different printer models have different functions and memory locations. If you are executing a script on several printers at once, be sure that the given operation is suitable for all the selected printers.

For information about printer drive locations, please see Appendix F – Datamax Drives and MCL Aliases.



If you want to use a different script than the one opened by default:

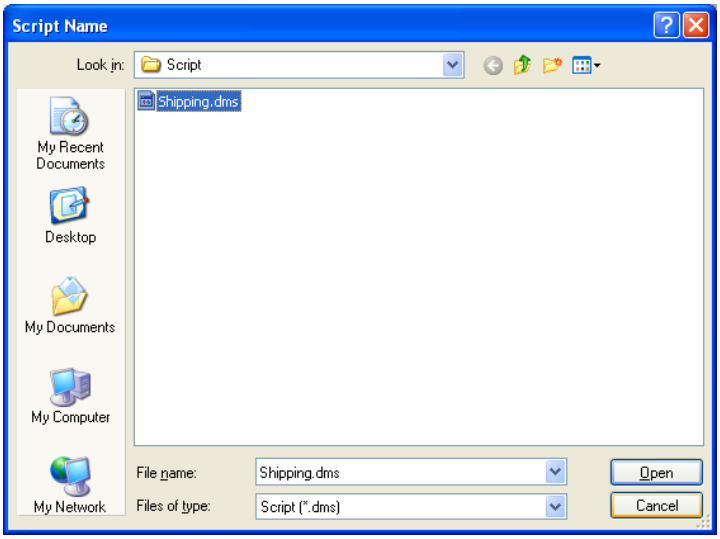
3 Click **File**

4 Click **Open**

A script selection dialogue box is displayed as shown here

www.mcl-collection.com

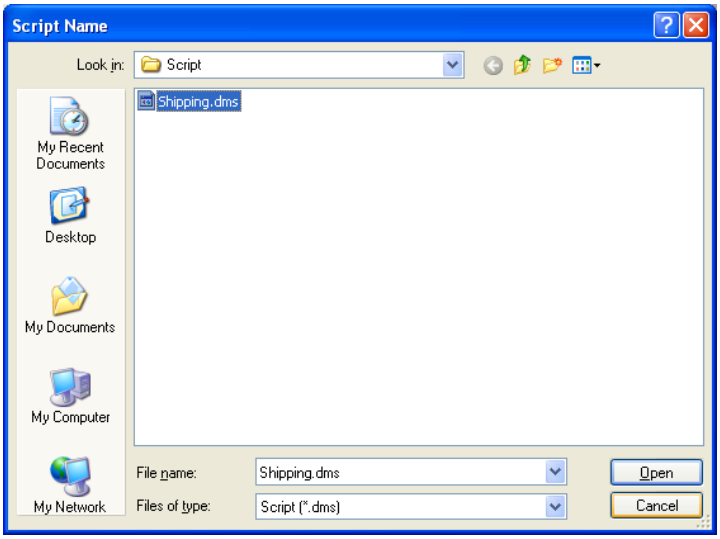
Copyright © 2010 • MCL Technologies • All Rigths Reserved



5 Select the **script** you want to execute
6 Click **Open**
7 Click the Execute button found at the bottom of the Script utility screen.

Alternatively, after you have selected the target printers as described above in step (1), on the DMXNet Manager **menu bar**
1 Click **Control**
2 Click **Execute Script**

The script selection dialogue box is displayed as show here



3 Select the **script** you want to execute
4 Click **Open**

Note: If selected this way, the script is executed immediately without any additional confirmation.

Script execution progress

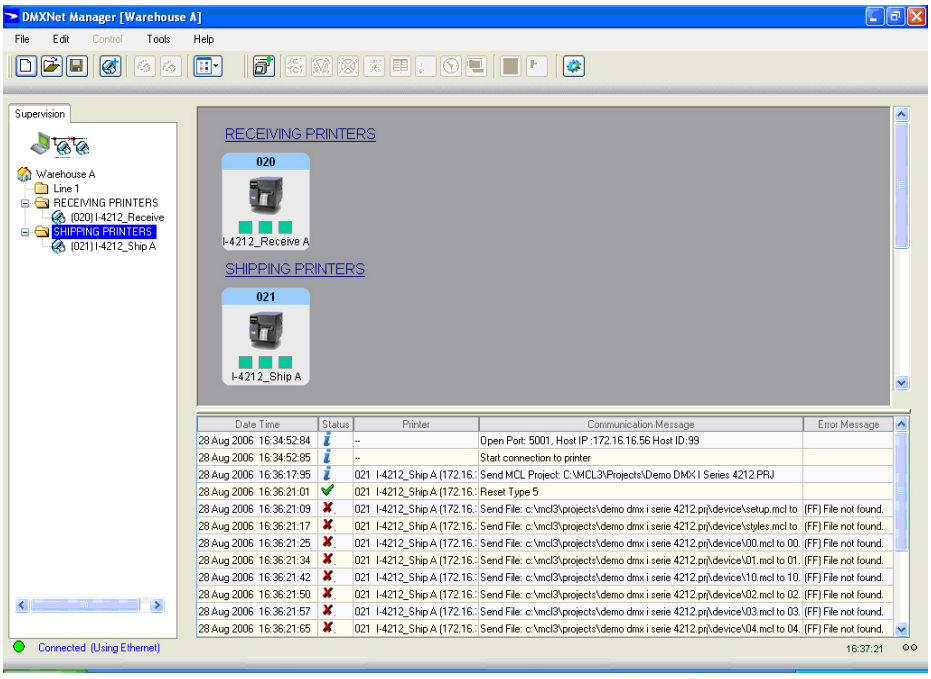
Regardless of how it was invoked—from the tool bar or from the menu bar—when the script is being executed, various dialogue boxes are displayed indicating the progress of the script execution.

Below are three progress dialogue boxes for a firmware load and a pause count down respectively.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

The results of the script execution are recorded in the message log window as shown below. An entry is made for each script command line executed. A ✔ status icon indicates a successful command line execution; a ✘ status icon indicates an unsuccessful, such as file not found, command line execution.


DMXNet Manager [Warehouse A]
File Edit Control Tools Help
Supervision
Warehouse A
Line 1
RECEIVING PRINTERS
(020) I-4212_Receive
SHIPPING PRINTERS
(021) I-4212_Ship A
RECEIVING PRINTERS
020
I-4212_Receive A
SHIPPING PRINTERS
021
I-4212_Ship A
Date Time | Status | Printer | Communication Message | Error Message
28 Aug 2006 16:34:52:84 | -- | Open Port: 5001, Host IP :172.16.16.56 Host ID:99
28 Aug 2006 16:34:52:85 | -- | Start connection to printer
28 Aug 2006 16:36:17:95 | 021 I-4212_Ship A (172.16.. | Send MCL Project: C:\MCL3\Projects\Demo DMX I Series 4212.PRJ
28 Aug 2006 16:36:21:01 | 021 I-4212_Ship A (172.16.. | Reset Type 5
28 Aug 2006 16:36:21:09 | 021 I-4212_Ship A (172.16.. | Send File: c:\mcl3\projects\demo dmx i serie 4212.prj\device\setup.mcl to | (FF) File not found.
28 Aug 2006 16:36:21:17 | 021 I-4212_Ship A (172.16.. | Send File: c:\mcl3\projects\demo dmx i serie 4212.prj\device\styles.mcl to | (FF) File not found.
28 Aug 2006 16:36:21:25 | 021 I-4212_Ship A (172.16.. | Send File: c:\mcl3\projects\demo dmx i serie 4212.prj\device\00.mcl to 00. | (FF) File not found.
28 Aug 2006 16:36:21:34 | 021 I-4212_Ship A (172.16.. | Send File: c:\mcl3\projects\demo dmx i serie 4212.prj\device\01.mcl to 01. | (FF) File not found.
28 Aug 2006 16:36:21:42 | 021 I-4212_Ship A (172.16.. | Send File: c:\mcl3\projects\demo dmx i serie 4212.prj\device\10.mcl to 10. | (FF) File not found.
28 Aug 2006 16:36:21:50 | 021 I-4212_Ship A (172.16.. | Send File: c:\mcl3\projects\demo dmx i serie 4212.prj\device\02.mcl to 02. | (FF) File not found.
28 Aug 2006 16:36:21:57 | 021 I-4212_Ship A (172.16.. | Send File: c:\mcl3\projects\demo dmx i serie 4212.prj\device\03.mcl to 03. | (FF) File not found.
28 Aug 2006 16:36:21:65 | 021 I-4212_Ship A (172.16.. | Send File: c:\mcl3\projects\demo dmx i serie 4212.prj\device\04.mcl to 04. | (FF) File not found.
Connected (Using Ethernet)
16:37:21

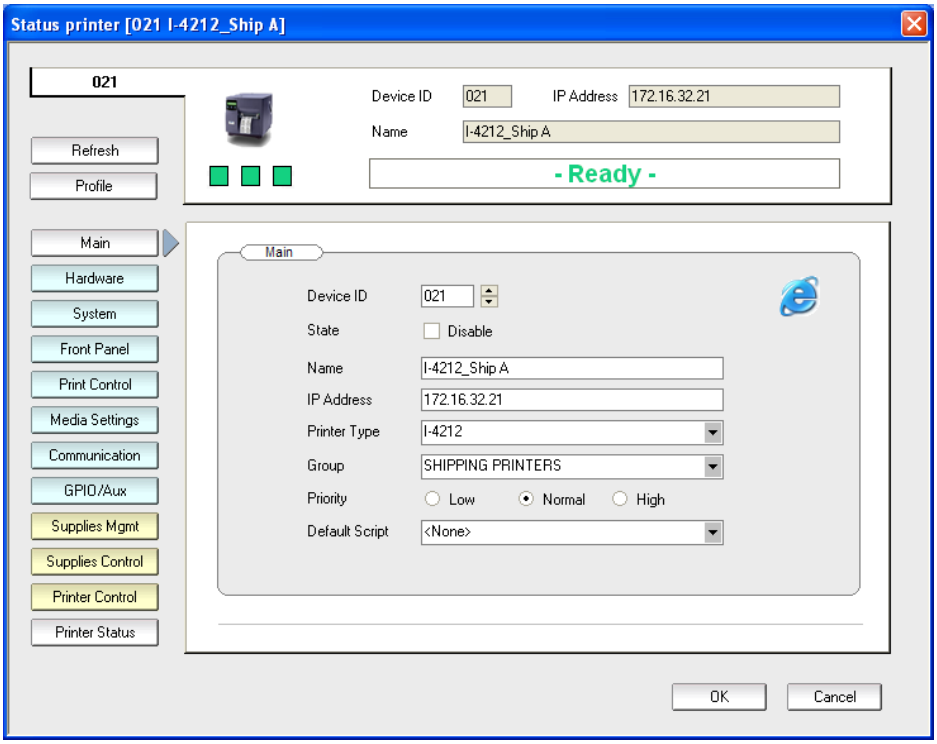
www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Default script execution

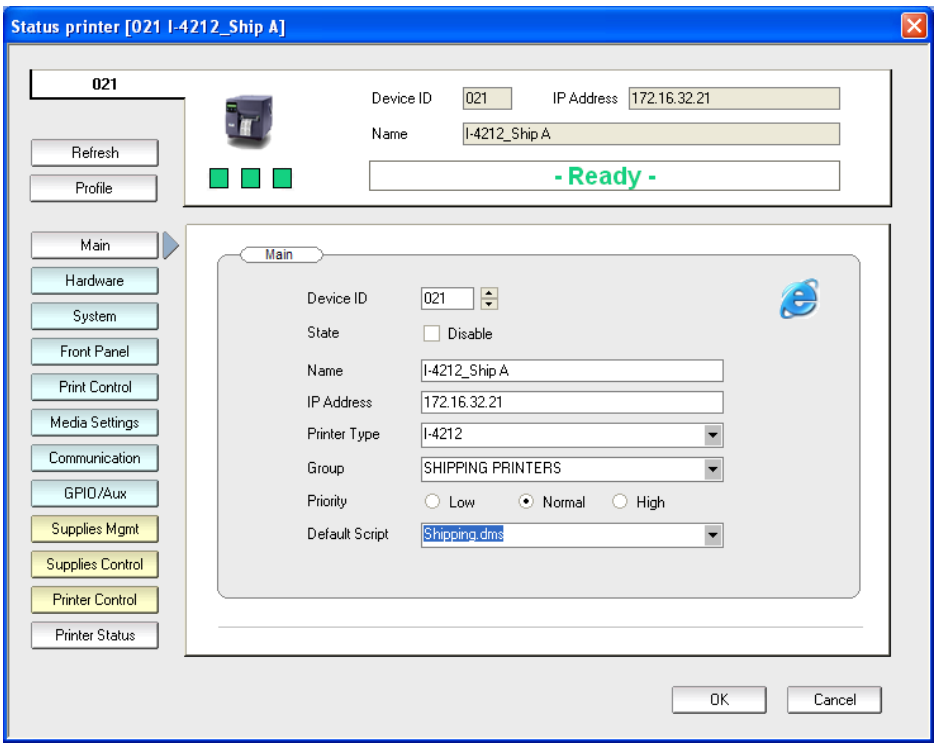
In addition to selecting several printers for script execution, DMXNet Manager also lets you define a default script for a given printer.

As described in Section 2.7 – Edit Printer, enter the Main Settings screen as shown here



Notice the Default Script setting.

1 Select the **script** you want to execute by default on this printer



www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

2 Click **OK**

As described previously under Script Execution, you may at any time execute a script that you specify for a given printer(s).

However, DMXNet Manager provides another option for script execution. If you set up a default script for a printer configuration or profile, a default script can be executed automatically without having to specify it time after time.

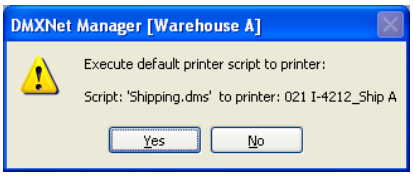
3 Select the **printer(s)** to which you want to apply default scripts

On the DMXNet Manager menu bar

4 Click **Control**

5 Click **Execute Default Script**

A dialogue box is displayed like the one shown below



6 Click **Yes** to execute the default script for the selected printer(s)

If you select two printers each with a different default script, each will have a different script applied to it when you click **Execute Default Script**.

To demonstrate the power of this capability, consider the following example. You have 100 printers. You have divided them into 4 sets of 25 printers each in which each set has a different printer setup, profile, and default script. You setup your printers using profiles and in the process specify a default script for each printer. You then select all 100 of your printers. On the menu bar, you click Control and select Execute Default Script. Each of your 100 printers will have the correct script applied to it automatically without any further manual intervention by you.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Appendix A – Sample License Certificate

License Certificate

When you place your order for DMXNet Manager, you will receive an email with a License Certificate for the product you ordered. Below is a sample License Certificate.

The information highlighted in yellow below is the information you need for your license activation.

Be sure to save a copy of your License Certificate in a safe place.

-----Original Message-----
From: meos1.license@mcl-certificate.com [mailto:meos1.license@mcl-certificate.com]
Sent: 11 May 2006 16:13
To: marketing@mcl-collection.com
Subject: MCL / Certificate / DATAMAX-1234567 / SMM-24 603 1010-1 / 1 / DMXNet Manager

MCL-Collection Certificate

This MCL-Collection Certificate is e-mailed in response to your order placed with Datamax.

A)
To download the software, please access the http://datamax.mcl-collection.com website, go to Section Download.

B)
To automatically activate (On-Line Mode) your purchased MCL-Collection Software, follow instructions displayed at install. To manually activate (Off-Line Mode) your purchased MCL-Collection Software, access the http://www.MCL-License.com website.

An easy activation process will require the License Number(s) and Password(s) provided hereunder for each individual Item.

Activation is required and ensures that each MCL-Collection product is not installed on more than one device.

Software Key – machine dependent activation:

ONCE THE MCL-COLLECTION SOFTWARE IS ACTIVATED ON A DEVICE IT CANNOT BE UN-INSTALLED FROM THAT DEVICE TO BE RE-INSTALLED ON A DIFFERENT ONE.

Hardware Key – machine independent activation:

If you want to transfer your license from one PC to another one, plug the Hardware Key (ref HWSNK-1102U or HWSNK-1102P) on the PC before starting the Activation Procedure.

Please retain this Certificate for your files, as it is required for proof of valid purchase.

****
****

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

SALES ORDER : DATAMAX/1234567
MCL REF NBR : DATAMAX/1234567891234
CUSTOMER ID : DATAMAX/12345678
CUSTOMER NAME : MCL Technologies
CUSTOMER ADDRESS : Chaussee de Bruxelles, 572
1410 Waterloo
Belgium
marketing@mcl-collection.com
DISTRIBUTOR ID :
PRODUCT CODE : SMM-24 603 1010-1
DESCRIPTION : DMXNet Manager
QTY : 1

ITEM #	LICENSE NUMBER	PASSWORD
1	2460-3101-0155-0000-7046	STEPGROK

****
**
E-MAIL DISCLAIMER

This e-mail and any files and attachments transmitted with it are confidential and may be legally privileged. They are intended solely for the use of the intended recipient (i.e. CUSTOMER).

The content of this e-mail or any file or attachment transmitted with it may have been changed or altered without the consent of the author. If you are not the intended recipient (i.e. CUSTOMER) of this e-mail, you are hereby notified that any review, dissemination, disclosure, alteration, printing, circulation of transmission of, or any action taken or omitted in reliance on this e-mail or any file or attachment transmitted with it is strictly prohibited and may be unlawful.

If you received this e-mail in error, please notify MCL-Technologies by e-mailing: marketing@mcl-collection.com.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Appendix B – Datamax Printer Setup

General introduction

In order to monitor and control your Datamax printer using DMXNet Manager, you must first perform some setup operations on your Printer.

Device ID and Group ID

Firstly, you must set up a Device ID and Group ID on each of your printers. On the **Datamax printer**:

1 Go to the **MCL System Menu**
2 Scroll through the Menu until you reach **Setup**, press the Ent ↵ button on the printer to enter Setup.
3 Scroll through the Menu until you reach **Device ID**
4 Use the printer Fwd ↑ button or Rev ↓ button to increment or decrement the existing value respectively.
5 When you reach the value you want, press the Ent ↵ button on the printer to apply the value.
6 **Make a note** of this **Device ID**. You will need it to set up DMXNet Manager as described in Section 2.5.3 – Main Settings.

7 Scroll through the Menu until you reach **Group ID**
8 Use the printer Fwd ↑ button or Rev ↓ button to increment or decrement the existing value respectively.
9 When you reach the value you want, press the Ent ↵ button on the printer to apply the value.
10 **Make a note** of this **Group ID**. You will need it to set up DMXNet Manager as described in Section 2.3.2 – MCL Connection.

Note: All printers to be managed by the same instance of DMXNet Manager must use the same Group ID.

Printer IP address

Next, setup your printer for Serial or Ethernet communications.

On the MCL Agent Port:

11 Select Ethernet or Serial. This setting is the physical means of connection you intend to use to connect to your printer(s) as described in Section 2.6 - Connect / Disconnect

If you setup the printer for Ethernet communications, setup static IP addresses for your printer.

12 Go to the **Datamax Menu Mode**
13 Scroll through and select **Communications**
14 Scroll through and select **NIC adapters**
   a. Scroll through, select and setup the **IP Address**
   b. Scroll through, select and setup the **Subnet mask**
   c. Scroll through, select and setup the **Gateway address**
15 **Make a note** of the **IP Address**. You will need it to set up DMXNet Manager as described in Section 2.5.3 – Main Settings.

TCP Port

Finally, setup the desired TCP Port (typically 3000 or 9100).

Note: All printers to be managed by the same instance of DMXNet Manager must use the same TCP Port.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Appendix C – Printer Status Messages

Status messages

This appendix lists the possible status messages that DMXNet Manager reports

In Supervision Mode:

- These messages are displayed in the “Status message” column of the Printer Window in Details View.

In Control Mode:

- These messages are displayed in the status box on the various Status settings and control screens.

Status Message	Additional information about the message
"No info" "- No Info (Using LPT1, DPL mode) -"	Printer never connected, No information because DMXNet Manager cannot read the printer status when communications are unidirectional only
"Get Printer info..."	Communication in progress with the printer (getting the information)
"- Communication Error -" "- Device ID fault -" "- IP Address fault -"	Message and Button : displayed in red
"- New Printer -" "- Not connected -" "- Printer Disabled -" "- No IP Address -"	Message and Button : displayed in gray
"- Head Up -" "- Paper Out -" "- Ribbon Fault -" "- Top of Form Error -" "- Cutter Fault -"	Message and Button : displayed in red
"- Pause -" "- Printing Batch -"	Message and Button : displayed in orange
"- Busy -"	Message and Button : displayed in orange
"- Ready -"	Message and Button : displayed in green

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Appendix D – Supported Datamax Printers

List of Printers supported by DMXNet Manager v1.x

- A-Class
  - A-4212
  - A-4310
  - A-4408
  - A-4606
  - A-6212
  - A-6310
- H-Class
  - H-4212X
  - H-4310X
  - H-4606X
  - H-6212X
  - H-6310X
  - H-8308X
  - H-4212
  - H-4310
  - H-4408
  - H-4606
  - H-6210
  - H-6308
- I-Class
  - I-4208
  - I-4210
  - I-4212
  - I-4308
  - I-4406
  - I-4604
- M-Class
  - M-4208
  - M-4306
  - M-4206 Mark II With graphical display
  - M-4210 Mark II with graphical display
  - M-4308 Mark II with graphical display
- W-Class
  - W-6208
  - W-6308
  - W-8306

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Appendix E – System Requirements

General introduction

This appendix provides the minimum requirements to run DMXNet Manager v1.x.

Operating system

Windows XP
Windows 2000
Windows 98

Server

Specification	Windows XP (min / recommend)	Windows 2000
Processor speed (MHz)	233 / 300	133 or higher
RAM (MB)	64 / 128	64
Free hard disk space (MB)	80	80
Display	800 x 600	VGA or higher

Specification	Win98 (min / recommend)
Processor	486DX 66MHZ
RAM (MB)	16 / 24
Free hard disk space (MB)	80
Display	VGA or higher

Communications interface

DMXNet Manager supports three physical means of communication with the Datamax printers

- Serial Com
- Network (Ethernet)
  - TCP/IP and UDP protocol stacks
  - Ports 3000, 9100, 5001
- Parallel

Datamax Text Printer firmware

V1.20 or greater

Datamax Graphical Printer firmware

V?.?? or greater

MCL Alias Support

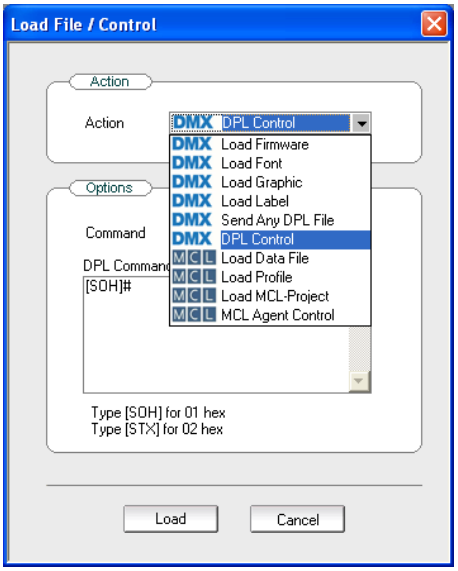
H-Class firmware – MCL Build 61 or greater

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

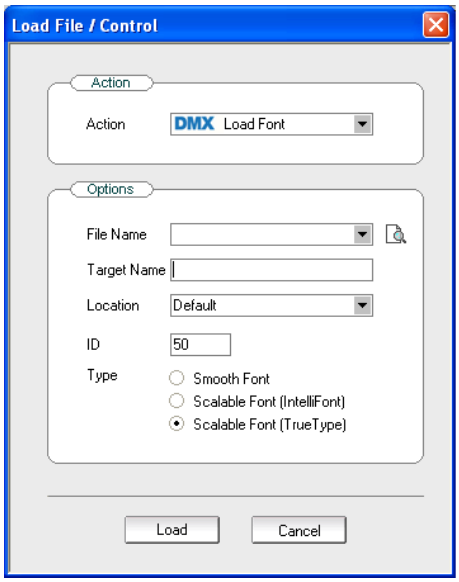
Appendix F – Datamax Drives and MCL Aliases

Load File / Control supports several actions, as shown here:



These actions are categorized as “DMX” actions or “MCL” actions. As shown above, DMX actions include Load Firmware and Load Font; MCL actions include Load Data File, Load Profile, and so on.

As shown below for **Load Font**, many of these actions require you to provide the LOCATION (destination) on the printer for the file you are sending to the printer.



The choices available for LOCATION depend on the action being performed and the model of the target printer. If you are performing a:

- DMX action, the LOCATION refers to a Datamax drive (please refer to your Datamax manual for more information)
- MCL action, the LOCATION refers to a MCL alias

MCL Aliases are logical references used by MCL for the various Datamax printer drives and memory modules. These aliases are used in MCL-Client, MCL-Designer Datamax Text Display, MCL-Designer Datamax Graphical Display, 123Print, and DMXNet Manager. The following table summarizes the MCL Aliases and their Datamax printer correspondences.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

MCL Alias	Alias Description	Datamax Drive Reference			Notes
		A, I, M, W-Class*	H-Class	M-Class Mark II	
<Default>	No alias	Module G	C:\MCL\PRJ\My Mcl Project\	C:\MCL\PRJ\My Mcl Project\	Current Path
A	Primary Ram Drive	Module D	A:\MCL\	A:\MCL\	Ram
B	Secondary Ram drive	NA	NA	NA	
C	Primary Disk Drive	Module G	C:\MCL\	C:\MCL\	Flash
D	Secondary Disk drive	Module D	D:\MCL\	G:\MCL\	= SD Card on a H-Class
E	Extended Memory 1	Module X	E:\MCL\	E:\MCL\	= USB Stick 1 on a H-Class
F	Extended Memory 2	Module F	F:\MCL\	F:\MCL\	= USB Stick 2 on a H-Class
G	*User Shared 1*	*Module G*	*C:\G*	*C:\G*	*For DMX compatibility reason*
H	*User Shared 2*	*Module H*	*E:\H*	*E:\H*	*For DMX compatibility reason*
I	*User Shared 3*	*Module I*	*F:\I*	*F:\I*	*For DMX compatibility reason*
J	*User Shared 4*	*Module F*	*D:\F*	*D:\F*	*For DMX compatibility reason*
K	*User Shared 5*	*Module X*	*C:\X*	*C:\X*	*For DMX compatibility reason*
L	*User Shared 6*	NA	NA	NA	
M	MCL System Root	Module Y	C:\MCL\	C:\MCL\	
N	*Reserved*				
O	*Reserved*				
P	MCL Projects	NA	C:\MCL\PRJ\	C:\MCL\PRJ\	
Q	*Reserved*				
R	Platform Root	NA	C:\	C:\	
S	*System root*				
T	*Reserved*				
U	*Reserved*				
V	MCL Voice data	NA	NA	NA	
W	*Reserved*				
X	*Reserved*				
Y	Protected Memory Area	Module Y	C:\Y\	C:\Y\	License data Storage
Z	*Reserved*				

* Reference your Datamax Programmer's Manual (typically Appendix K) to see if the given module is present on your model of printer.

Table: MCL Aliases and Their Corresponding Datamax Drive References

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved

Note: If a given Load File / Control action does not give you the option to select a LOCATION, the file is automatically saved in the <Default> location.

Note: If the <Default> location is being used and you are performing an MCL action, the file is stored as indicated in the table above for the MCL Alias <Default>. This is typically where the MCL-Client is stored, and is typically in Flash memory.

Note: If the <Default> location is being used and you are performing a DPL action, please see your Datamax programmer's manual for information about default drives and memory modules.

Note: Keep in mind that anything saved in RAM memory will be lost when the printer is powered off or rebooted.

Note: MCL Aliases are used with these same designations across all MCL-Collection products, including those used for mobile computing.

www.mcl-collection.com

Copyright © 2010 • MCL Technologies • All Rigths Reserved